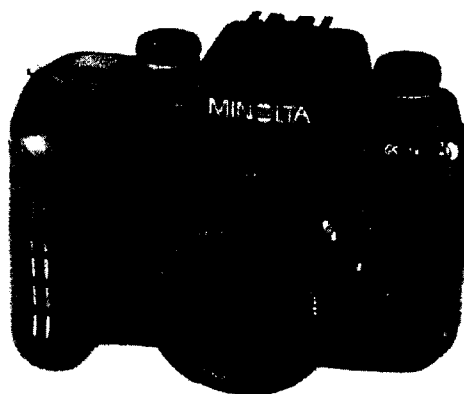


MINOLTA DYNAX 9
MINOLTA MAXXUM 9
MINOLTA α -9

(2098-100)
(2098-300)
(2098-500)

**Type**

: 35mm SLR with built-in flash, autoexposure (AE), and autofocus (AF)

Lens

: Minolta A-type bayonet mount

Shutter

Type : Electronically-controlled, vertical-traverse, focal-plane type
 Speed : 1/12000 - 30 sec., Bulb
 Flash sync speed : 1/300 or slower (synchronizes with all speeds in HSS mode)
 Self-timer : Electronic with 10 sec or 2 sec delay; Cancelable (indicated by LED lamp)

Exposure

Exposure Modes : P, A, S, M (PA, PS available as a custom function);
 Manual setting in 0.3EV or 0.5EV-stop increments
 Type : Through-the-lens (TTL) metering; direct TTL metering for flash
 Metering Cell : Ambient: 14-segment honeycomb, center weighted average, spot (\varnothing 5.5mm)
 Flash: 4-segment SPC

Metering Range (f/1.4, ISO100)
 : 14-segment metering: EV 0-20,
 Spot metering: EV 3-20
 Center weighted average metering: EV0-20

Film-speed Setting

: Automatic setting for DX-coded film from ISO 25 to 5000.
 Previous setting for non-DX-coded film.
 Manual setting from ISO 6 to 6400 in 1/3EV-stop increments.
 Recommended range for flash: ISO 25 - 1000

Exposure compensation

: ± 3 EV (1/2-stop increments) or ± 2 EV (1/3-stop increments)

Flash compensation

: ± 3 EV (1/2-stop increments)

AE Lock

: Available with AE-Lock Button automatically or when focus is locked.

2 (2098)A

CODE

Focus

- Focus Modes : Manual/Auto focus mode; AF mode selection among Single-shot, continuous and automatic available
- Type : TTL phase detection system
- Focusing cell : Cross hairs type CCD line sensor (| + |)
- AF Sensitivity Range : BV -6 to 13
EV -1 to 18 (ISO 100)
- Main features : Eye-start AF
Wide focus area, and 3-local-focus-area selection
Multi-dimensional predictive focus control for moving subject up to 15mm/sec on film plane.
- AF Illuminator : Built-in 3-beam LED; Automatically activated in low light and low-contrast situations.
With a dedicated flash unit, its AF illuminator (LED) will be selected automatically.
Range: Approx. 0.7-7m (With 50mm lens; based on Minolta standard test method.)
- Focus lock : Available with S1 ON (shutter-release button partway down) or AF Button ON

Film Transport

- Loading : Auto loading; mid-roll reload available with customized setting
- Frame counter : Forward counter; reverse counter available with customized setting
- Film advance : Single-frame drive, continuous drive (2 or 5.5 frames/sec.; 4.5 in continuous AF mode),
- Film rewind : Auto or manual rewind start
- Rewind time : High speed: Approx. 4 sec./6 sec. (With 24/36-exp. roll)
Silent: Approx. 5 sec./9 sec. (With 24/36-exp. roll)

Viewfinder

- Type : Eye-level fixed glass pentaprism
- Field of view : 100% × 100% (With 50mm f/1.4 lens at ∞)
- Magnification : 0.73X (With 50mm lens at ∞)
- Focusing screen : Spherical matte, user interchangeable screens (type G, M, L, S) available
- Diopter : -1 diopter, adjustment: -3 to +1
- Eye relief : Approx. 22.1mm from eyepiece lens, 18.3mm from eyepiece frame
- Eyepiece : Soft type eyepiece cup (detachable), and built-in eyepiece shutter

Data Panel

- On-body : ISO mark, Data memory indicator, Release priority indicator, Cartridge mark, Shutter speed display (Focus area/ISO), Aperture display (Exposure compensation/Bracketing), Battery condition indicator, Frame counter, Film transport signals.
- Viewfinder LCD : Spot-focus area, Local focus areas, Spot-metering area
- Viewfinder LED : Flash-on indicator, High-speed sync indicator, Flash-ready indicator, Wireless/Remote flash indicator, Focus area indicator, Focus signals, Shutter speed display, Aperture display, AE-lock indicator, Frames remaining counter, Meter index.

Built-in flash

- Up/down : Manual up/down
 Guide Number : 12 (ISO 100 in meters)
 Coverage : 24mm angle of view
 Recycling Time : Approx. 2.5 sec.(based on Minolta standard test method); power source is camera battery
 Flash mode : Fill-flash while flash is up, flash cancel while flash is down
 Rear-flash sync:
 shutter speed 1/60sec or slower, available with dedicated flash connected to PC terminal
 Wireless flash:
 shutter speed 1/60sec or slower,
 Wireless off-camera ratio flash:
 1/30 sec or slower
 High-speed sync (with 5400HS flash):
 shutter speed 1/300sec or faster, not available under fluorescent light
 Other : Built-in flash automatically turns off while dedicated flash is attached.
 Red-eye-reduction flash selectable
 Off-camera wireless flash control available, ratio flash control available

Panorama

: None

Other features

- Remote-Release Terminal with slide cover
- PC Terminal (thread type, negative-tip polarity flash available)
- Customized functions of 21 items
- Exposure bracketing of single or continuous; flash bracketing in flash photography
 Steps: 0.3, 0.5, 0.7, or 1.0EV selectable
 Exposures: 3, 5, or 7 exposures selectable
- Multiple exposure (unlimited)
- With xi or power zoom lens: power zoom, power focus, auto-compact

Battery Performance

Test conditions: lens (24-85 f/3.5-4.5) is focused from infinity to 2m three times and the shutter-release button held partway down for ten seconds before each exposure.

20°C, fresh battery, 24-exp/36-exp film

Approx. 45/30 rolls with flash 0%

Approx. 23/15 rolls with flash 50%

Approx. 14/9 rolls with flash 100%

Power

- : Two CR123A lithium batteries
 Battery-condition indicators: appears in 4-step when Main Switch is ON

Dimensions

: 155 × 111 × 75mm

Weight

: 945g (Without battery)

4 (2098)G

MINOLTA DYNAX 9 Ti
MINOLTA MAXXUM 9 Ti
MINOLTA α -9 Ti

(2098-150)
(2098-350)
(2098-550)



Major specifications except for weight is the same as the 2098-100, -300, -500 (See pg. 1-3).

Upgraded specification on 2098-150, -350, and -550.

Item	-100, -300, -500	-150, -350, -550
Shutter Speed and Aperture displays in Viewfinder while Eye-Start Switch is ON.	Distinguishes whenever eye-detection is not activated.	Keeps on while metered value is held regardless of eye-detection status.
Exposure-compensation display in viewfinder during compensation operation.	Distinguishes when compensation amount is changed.	Keeps on when compensation amount is changed.
Shutter Speed and Aperture displays in viewfinder and on-body LCD when AE is unlocked.	Distinguishes when AE is unlocked.	Keep on for a while after AE is unlocked.
Built-in flash charge	Starts by Shutter-Release Button pressed partway down.	Starts by being raised.
Built-in flash charge when initial load completes	Doesn't start when initial load completes while it is raised.	Starts when initial load completes while it is raised.
Built-in flash charge when Eye-Start Switch is ON	Doesn't start when eye-start is activated while it is raised.	Starts when eye-start is activated while it is raised.
Focus signal in viewfinder while self-timer count-down.	Distinguishes while self-timer count-down.	Keeps on while self-timer count-down.
Shutter release with IR-1 while in wireless mode	Not available	Available

* Upgraded specifications as above are included in new FPC-A Assy #2098-0901.

Weight

: 825g (Without battery)

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARY
 MODEL DYNAX 9
 MAXXUM 9
 α -9
INFORMATION**■ Customized modification for push-on type AF Button**

AF Button modification is available to meet with customer preference.

This information includes how the modification will change the AF Button operation, and how to modify it.

■ AF Button operation after modification

Focus that is confirmed by pressing AF Button stays locked until the AF Button is pressed again.

No need to keep the button pressed down to lock focus.

<While Eye-Start Switch is set to ON position>

- Auto focus is disabled by pressing Shutter-Release Button partway down (S1 ON).

- Auto focus starts by pressing AF Button.

- * Metering also starts by pressing Shutter-Release Button, but always with center-weighted average because of no distance data.

<While Eye-Start Switch is set to OFF position>

- Auto focus starts by pressing Shutter-Release Button partway down or by pressing AF Button.

■ Operation of CUST-15 setting after modification

CUST-15	Eye-start Switch position	When eye-sensor activated		When S1 is ON	When AF Button is pressed	Front/Rear Control Dial
		Metering	AF			
1	ON	×	×	×	○	○
	OFF	×	×	○	○	○
2	ON	×	×	×	○	×
	OFF	×	×	○	○	○
3	ON	×	×	×	○	×
	OFF	×	×	○	○	○

■ Eye-sensor operation after modification

- Auto focus and metering are disabled when camera is brought to eye-level.

<Explanation>

- According to the AF algorithm, the conventional modification has the slow focusing speed when eyepiece sensor is activated. Because, auto focus is activated continuously after pressing AF Button even if focus is confirmed. Therefore, the eyepiece sensor activation is disabled to cancel auto focus and metering when camera is brought to eye-level. See the procedure to disable eyepiece sensor.

- If the customer would like to have the function that auto focus and metering start when Eye-start Switch is set to OFF position while CUST15-2 is selected, the eyepiece sensor activation is not disabled.

AF button modification procedure

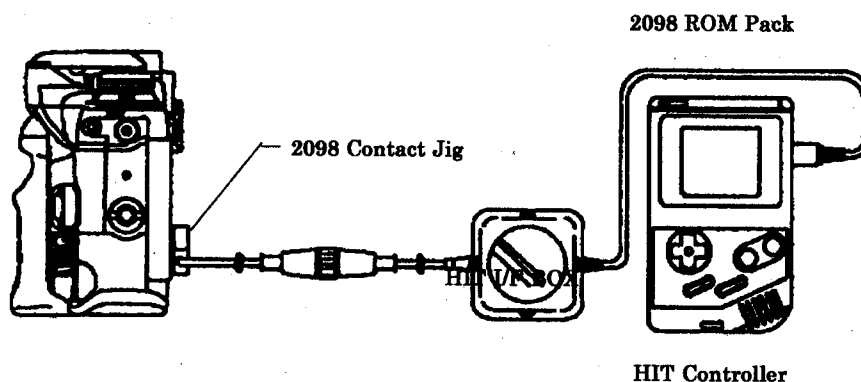
■ Procedure

HIT Controller
2098 ROM Pack
2098 Contract Jig
HIT I/F Box

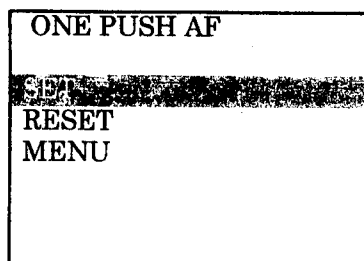
■ Procedure

1. Set up the equipment as in Fig. 1
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "ONE PUSH AF" from assist mode menu and press SELECT Button.
4. Select either setting and press SELECT Button.
SET: Modification to push-on type AF Button
RESET: Original AF Button
5. Press Shutter-Release Button partway down. "COMPLETE" appears when setting is complete.
6. Press SELECT Button to return to assist mode menu.

■ Fig. 1



■ Fig. 2



Procedure to disable eyepiece sensor

■ Procedure

Disassemble the camera, and disable the eyepiece sensor activation with one of the following procedure.

<Procedure-1>

Unsolder 4 lead wires (W43, W44, W59, W60) to separate from the Eyepiece Assy (#0139).

<Procedure-2>

Affix the pieces of the Acetate tape (#9384-2391-20) to the pattern of GRIPSW on the FPC-M Assy (#0413).

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARYMODEL DYNAX 9
MAXXUM 9**INFORMATION** α -9**Mirror Box Assy #2098-0500-01 modification****Parts modification**

See Parts Modification List QS FA 2098-P021.

Mirror Box Assy #2098-0500-01 → -02

Penta-Prism Assy #2098-0580-01 → -02

Parts Compatibility

Part		Penta-Prism Assy #2098-0580-01
Mirror Box Assy	#2098-0500-01	×
	#2098-0500-02	○

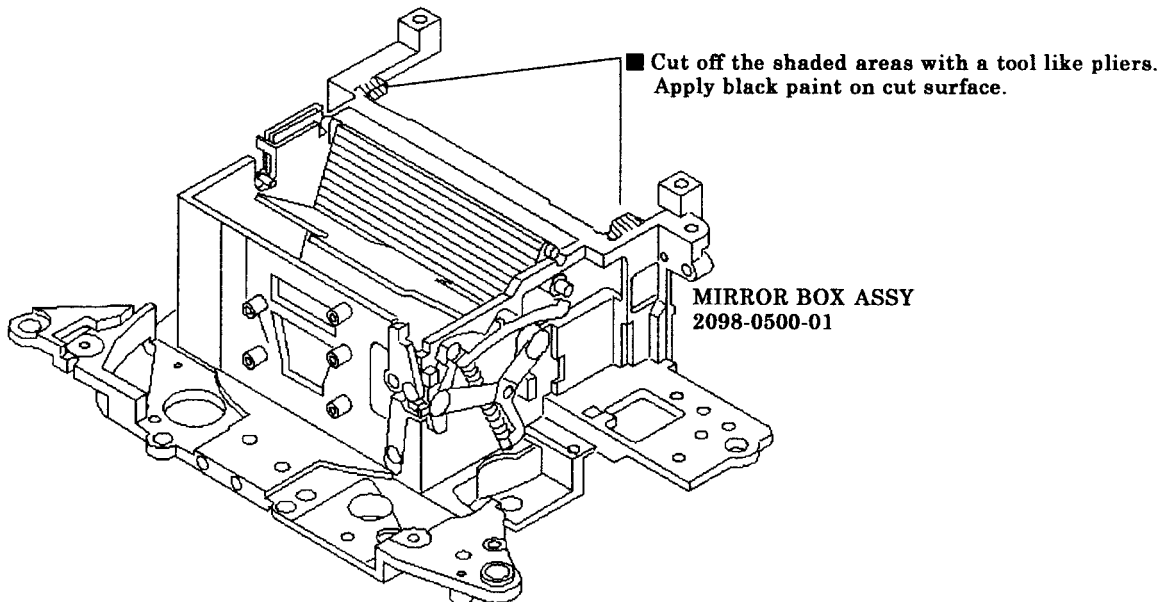
Penta Prism Assy #2098-0580-01 should not be used.

Mirror Box Assy #2098-0500-01 modification

Mirror Box Set #2098-0500-01 can be modified to comply with Penta-Prism Assy #2098-0580-02.

Mirror Box Set with back adjustment washer of 0.1mm or less cannot be modified.

- ① Remove Mirror Box Assy.
- ② Remove Penta-Prism Assy and Shutter Assy.
- ③ Cut off the shaded areas with a tool like pliers.
- ④ Apply black paint on cut surface.



SERVICE MANUAL

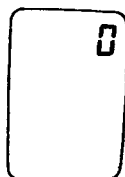
CODE NO. 2098 Series

SUPPLEMENTARY
 MODEL DYNAX 9
 MAXXUM 9
 α -9
INFORMATION**Customized modification of additional custom functions**

Customized modification is available to normal version (-100, -300, -500) to have additional custom functions equivalent to titanium version (-150, -350, -550).

Procedure

1. Turn all displays on in LCDs; Slide Main Switch to ON, then pressing and holding Rewind Button, re-install batteries.
2. Press and hold AE-Lock Button for more than 5 sec. Current version will be replaced with the other;
 "0": NORMAL (-100, -300, -500)
 "1": TITANIUM (-150, -350, -550)



The version "0" appears
(by pressing and holding AE-Lock Button.)



It is replaced with the other after 5 sec.

* The version display will not change if you release AE-Lock Button within 5 sec. Start from step-1.

The display will not change to version display if FPC-A Assy is #2098-0401. Replace it with #2098-0901 and perform "Model selection" to set to TITANIUM on pg. 58, Repair Guide. After performing the "Model selection", this modification procedure is unnecessary.

3. Re-install batteries.

Re-installing batteries will resume normal displays.

Customized modification

Function number	Control	Setting number	Action	
			0: NORMAL (-100, -300, -500)	1: TITANIUM (-150, -350, -550)
CUS-14	Local focus area in viewfinder	2	Always appears for 0.4 sec. at AF Lock	Always appears for 0.6 sec. at AF Lock
CUS-18	Front (F)/Rear (R) Control Dial function in P/A/S mode	3	P: F: No function, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation	P: F: PA, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation
		4	-----	P: F: PS, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp. compensation
CUS-22	AF illuminator	1	-----	Fires if necessary
		2	-----	Canceled
CUS-23	Front/Rear Control Dial Lock	1	-----	Off
		2	-----	On

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARYMODEL DYNAX 9
MAXXUM 9**INFORMATION** α -9**■ Customized modification of CUS_t 14-2; AF Area Display time**AF Area Display time with CUS_t 14-2 is variable from 0.1 sec to 1.6 sec in 0.1-sec increments.**■ Equipment required**

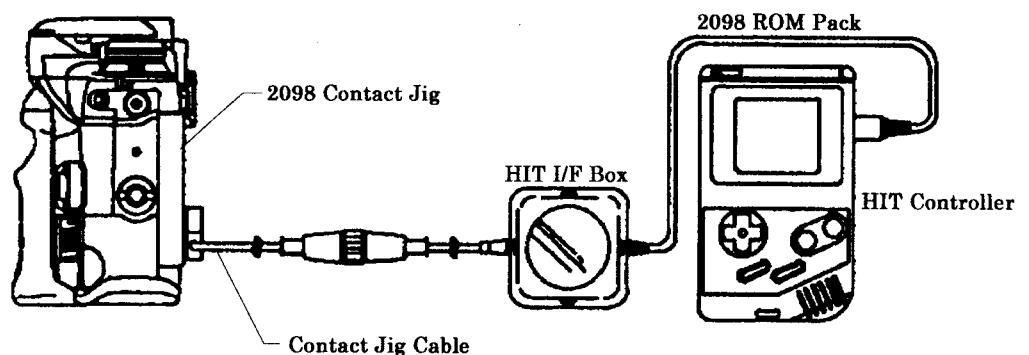
HIT Controller
 2098 ROM PACK
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box

■ Procedure

1. Setup the equipment as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "FOCUS LED ADJ." from assist mode menu and press SELECT Button.
4. Press Shutter-Release Button partway down (S1 on). Current AF area display duration appears.
5. Select a display time using Control Pad and Button-A/-B;
 While pressing and holding Button-A, press upper/lower Control Pad: +/-0.1 (sec.)
 While pressing and holding Button-B, press upper/lower Control Pad: +/-1.0 (sec.)
6. Press S1 on. "COMPLETE" appears when adjustment is completed.

If "CHANGE FLEX" appears, FPC-A Assy is #2098-0401. Replace it with #2098-0901, perform "Model selection" to set to TITANIUM on pg. 58, Repair Guide, and start from step-1 above.

7. Press SELECT Button. Displays are replaced with assist mode menu.

■ Fig. 1

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARYMODEL DYNAX 9
MAXXUM 9**INFORMATION**

-9

Guidance about SSM Lens(Custom Service)**Procedure**

1. Replace FPC-A ASSY (2098-0801-71) or IC-1(2098-4101-71)
2. After soldering FPC of BL CONTACT HOLDER ASSY(2098-0150-01),attach REGISTOR(9432-3326-67) between 7 and 8 of CN-AE.
3. After replacing FPC-A ASSY (2098-0801-71), adjust as requied in the table on P.32(Repair Geide:included model selection)
4. Set SSM Custom Service.
5. Check the AF operation with SSM Lens.

Custom Service Setting

1. Setup the equipments as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "SSM CUSTUM SERVICE" from assist mode menu(Fig.2) and press SELECT Button.
4. Select "START" from EEPROM INIT menu(Fig.3) and press Select Button.
5. Press Shutter-Release Button partway down. "Complete" appears when setting is over.
6. Press SELECT Button. Display returns to ASSIST MODE menu.

Fig. 1

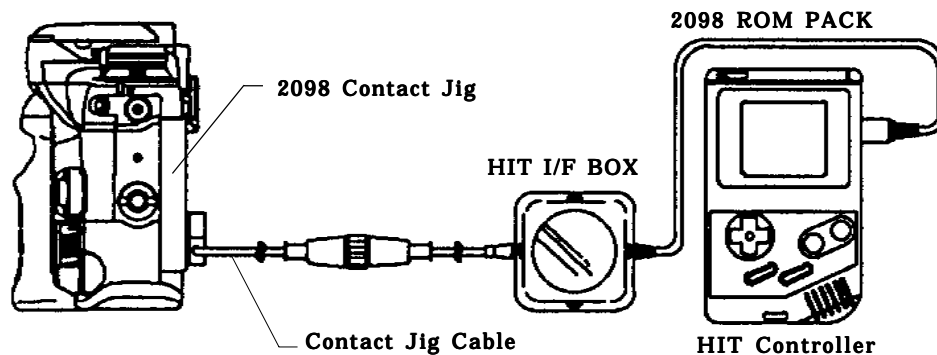


Fig. 2

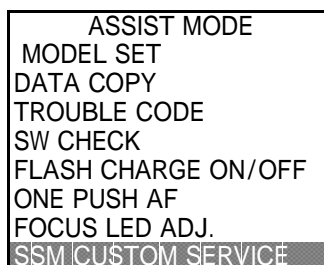
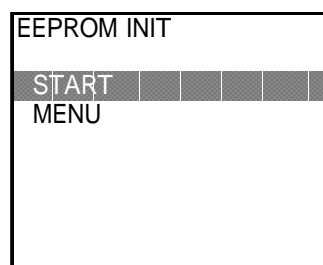


Fig. 3

**Related Information**

: PML QS FA 2098-P032

This information should be filed in your service manual.

MINOLTA CO.,LTD.

Repair Guide

- Contents of this manual are in accordance with the assembly procedure. Therefore, follow the reverse procedure when disassembly.
- Refer to Wiring diagram on Parts List, page 16 for wiring.

■ : Cautions and keypoints

G: Grease

B: Adhesive

T: Tool

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■Precautions

■Chemicals

Handle chemicals of high volatility with care, use of which will affect to your health and environment.

1. Store them sealed in a specific place to prevent exposure to high temperature or direct sunlight.
2. Avoid dividing them into small containers and prevent vaporization.
3. Keep containers sealed when not in use.
4. Avoid using them as much as possible. When required, remove only required amount from the container to make full use.

■Plastic parts

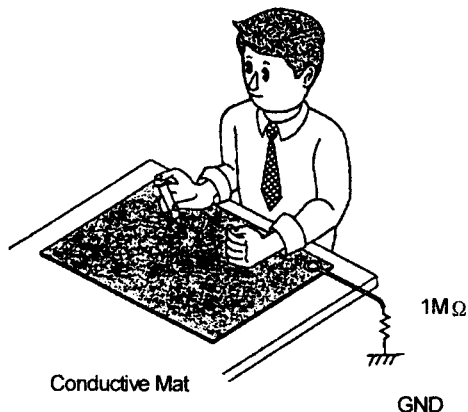
1. When cleaning plastic parts, use cleaning paper or cloth. Never use thinner, ketone, ether.
2. When installing plastic parts, insert the specific screws vertically to the parts. (Be careful not to tighten too much.

■PCBs

Since PCBs use MOS IC, you must reduce static electricity. When repairing a PCB itself, or when wiring, please perform your work as illustrated below.

If grounding is impossible, connect a cable to a steel desk or shelf.

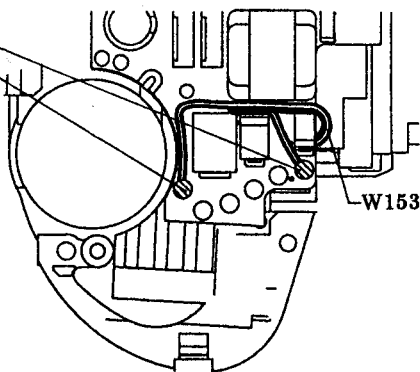
Keep touching the conductive mat while you work.



■Discharge

Before disassembly, be sure to discharge the main condenser in the following manner. (Fig. 1)

Short-circuit with discharger or resistor of 200-300 ohm/3w.
Check voltage to make sure it is discharged.

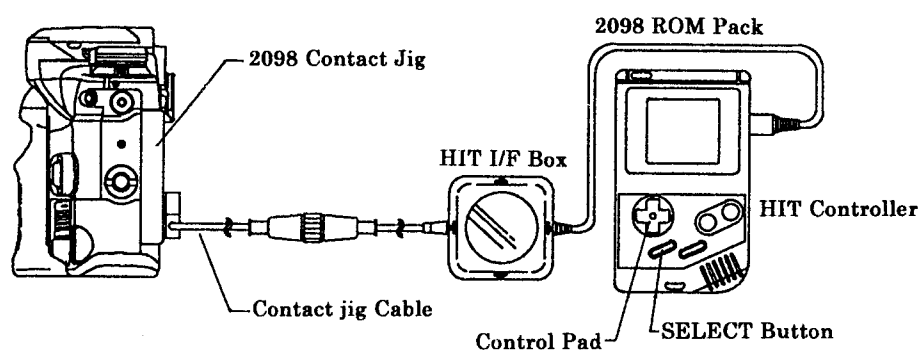


■ To inhibit flash charge

Be sure to make flash charge available after repair.

1. Setup the camera as Fig. 2.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "FLASH CHARGE ON/OFF" from assist mode menu and press SELECT Button.
4. Press Shutter-Release Button partway down.
5. Press Button-A or -B to select flash charge on/off. And press SELECT Button.
Button-A: ON (flash charge available)
Button-B: OFF (flash charge inhibited)
6. Press Shutter-Release Button partway down. HIT Controller beeps.
7. Re-install Battery.

■ Fig. 2

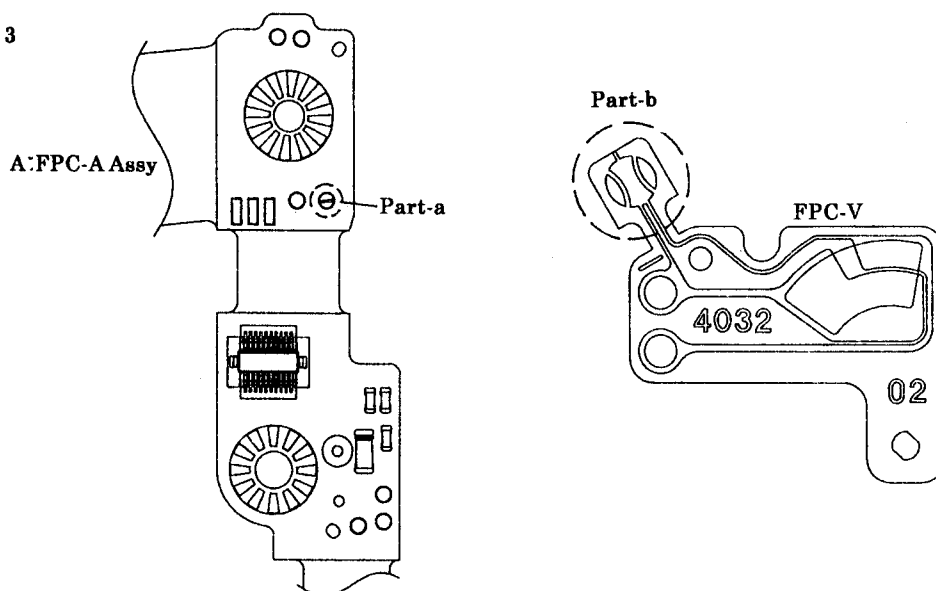


■ To activate without Top Cover (Fig. 3)

- Short-circuit the pattern -a of FPC-A Assy #0401 with solder.
- When using replacement FPC-V #4032, no need to short these patterns because it has pattern-b.

*Before installing Top Cover, be sure to unsolder the pattern-a or cut the pattern-b.

■ Fig. 3



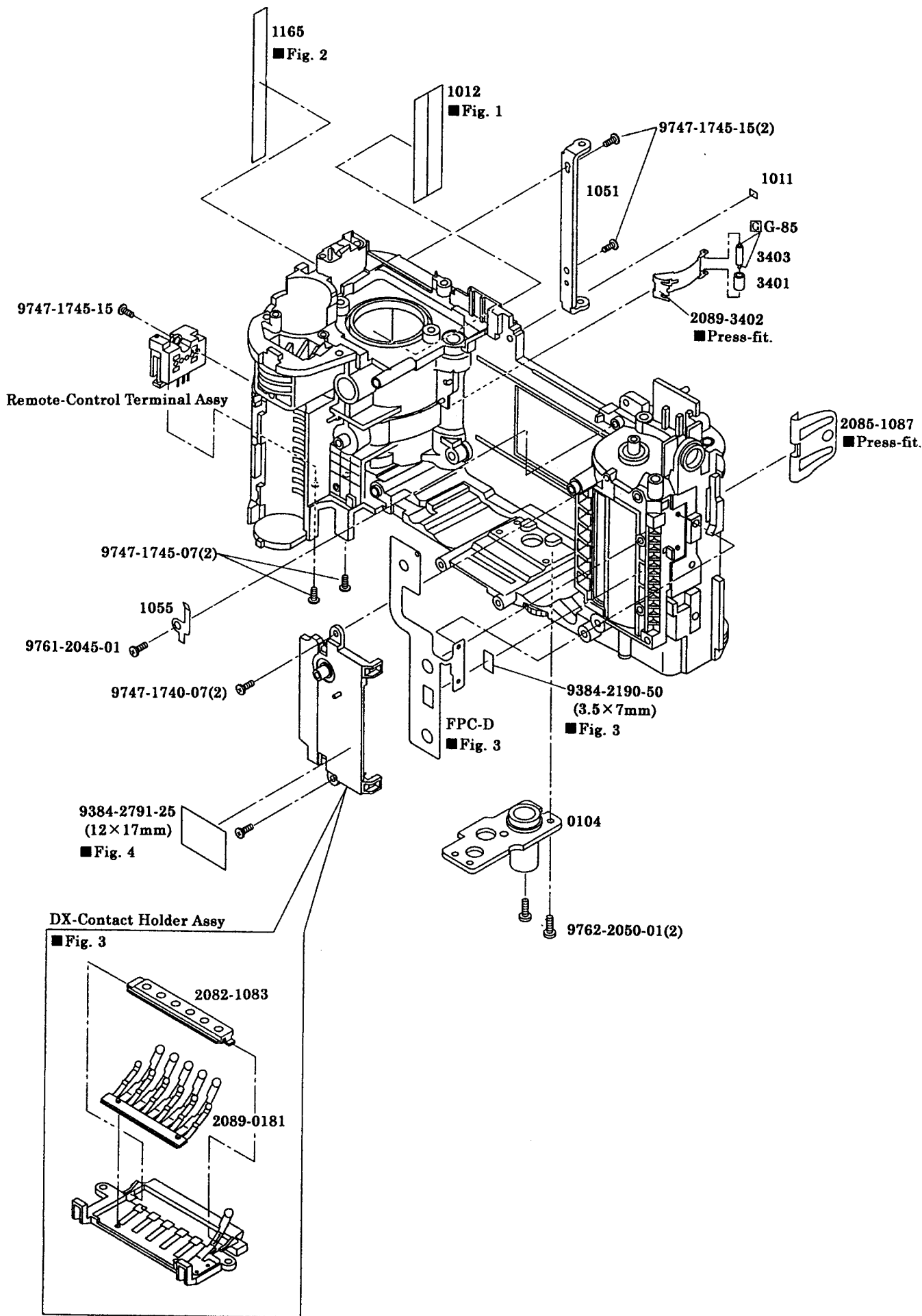
■ Replacing FPC-A Assy #0401

Initial setting after FPC-A Assy replacement is:

- Flash charge inhibited
- Erratic display in Data Panel.

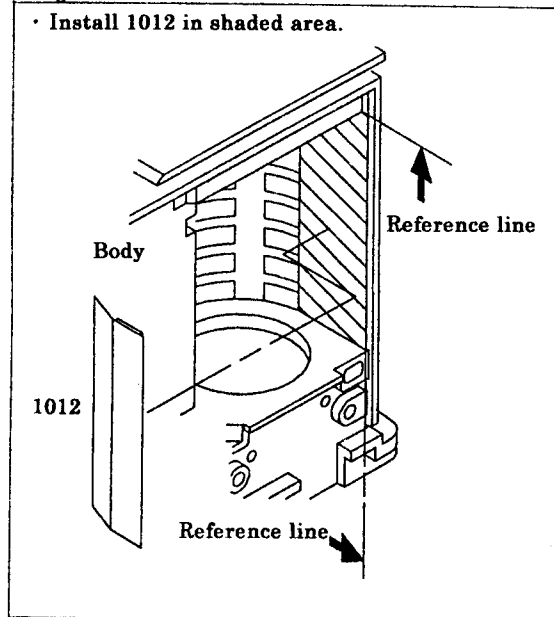
*Battery installation after Flash level Adjustment (P. 49) will reset these settings.

1 FPC-D, DX-Contact Holder Assy, Remote-Control Terminal Assy Installation



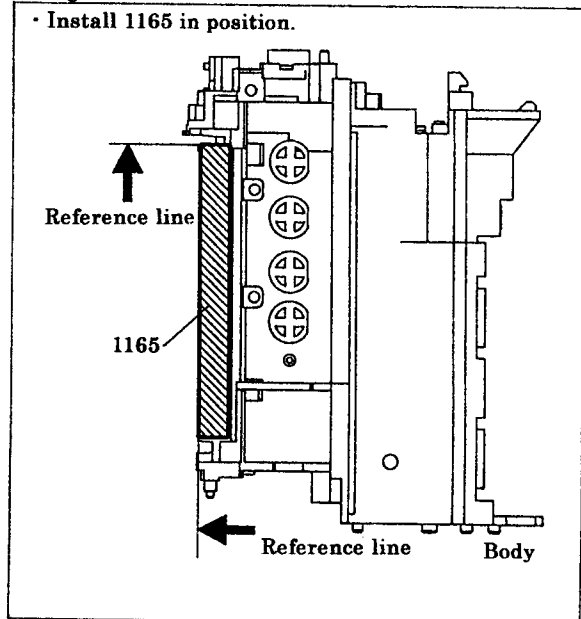
■ Fig. 1

- Install 1012 in shaded area.



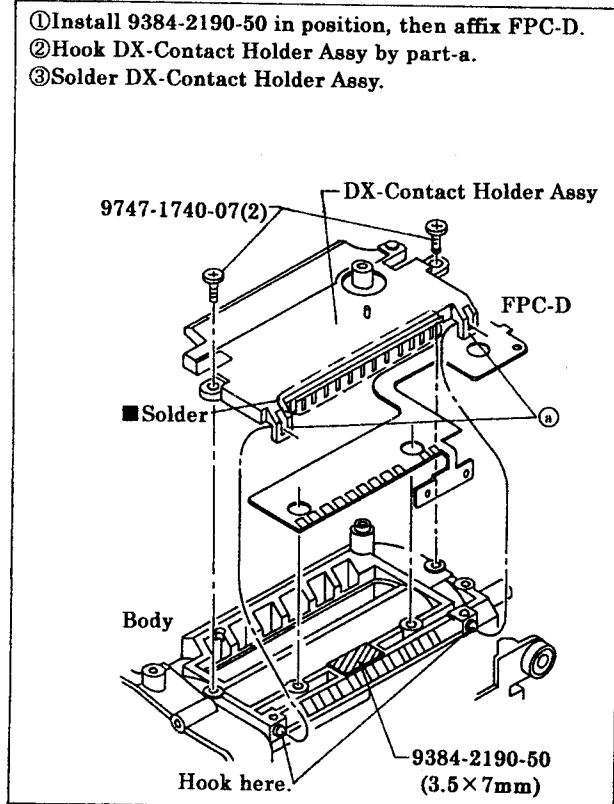
■ Fig. 2

- Install 1165 in position.



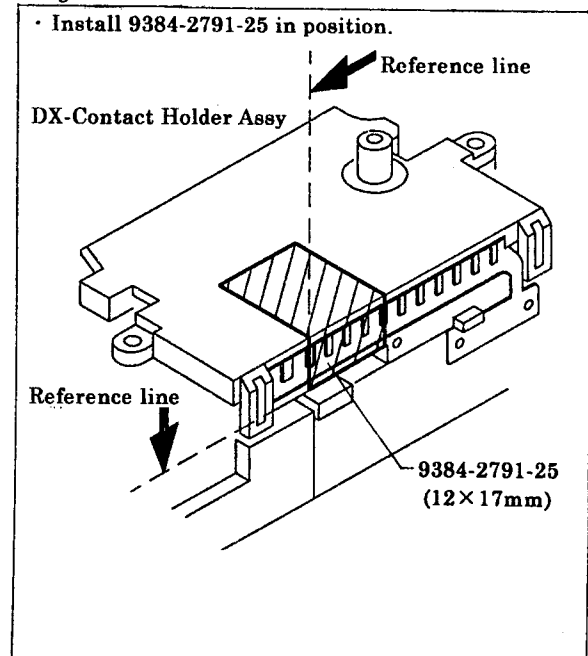
■ Fig. 3

- ① Install 9384-2190-50 in position, then affix FPC-D.
- ② Hook DX-Contact Holder Assy by part-a.
- ③ Solder DX-Contact Holder Assy.



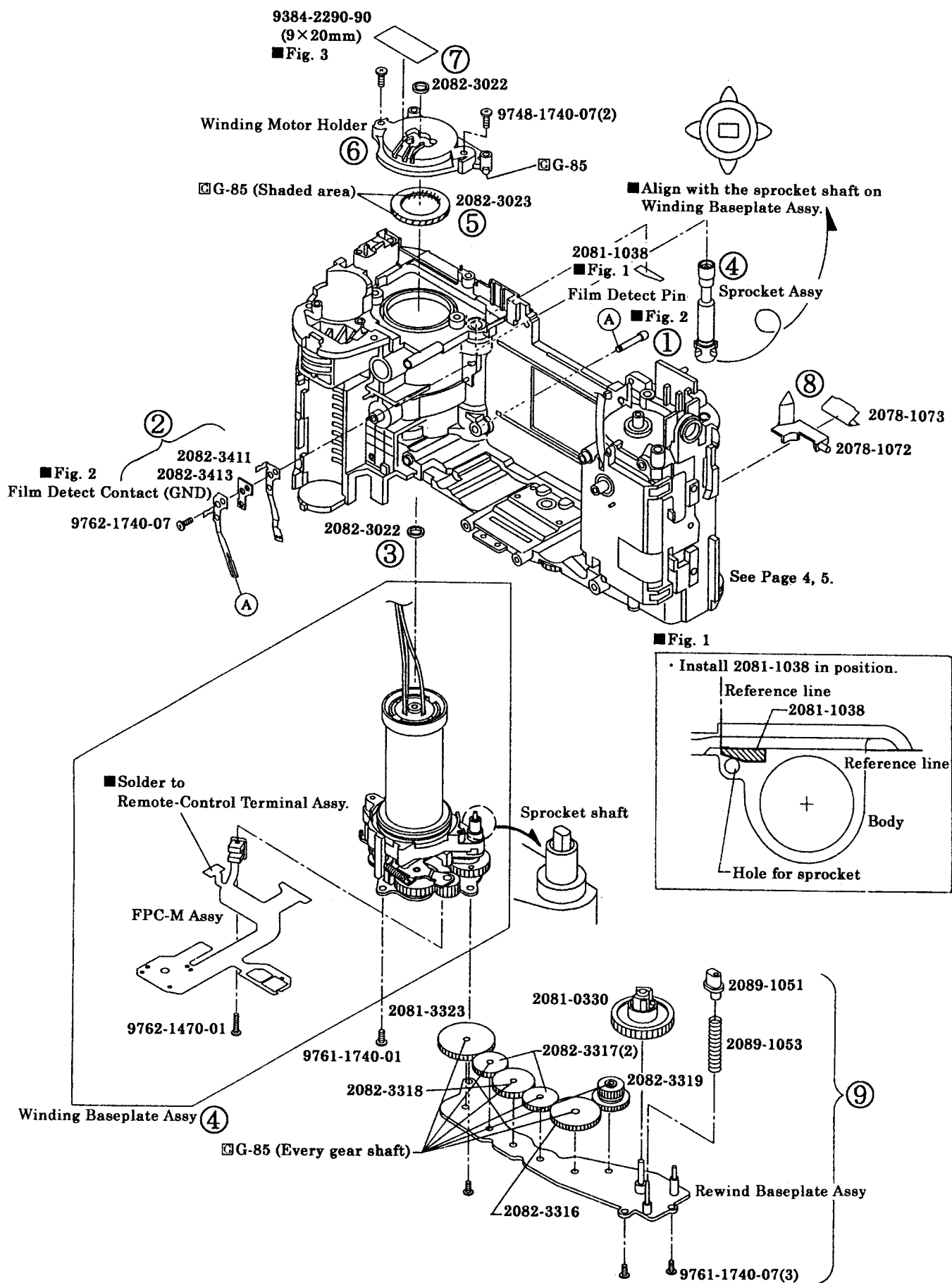
■ Fig. 4

- Install 9384-2791-25 in position.



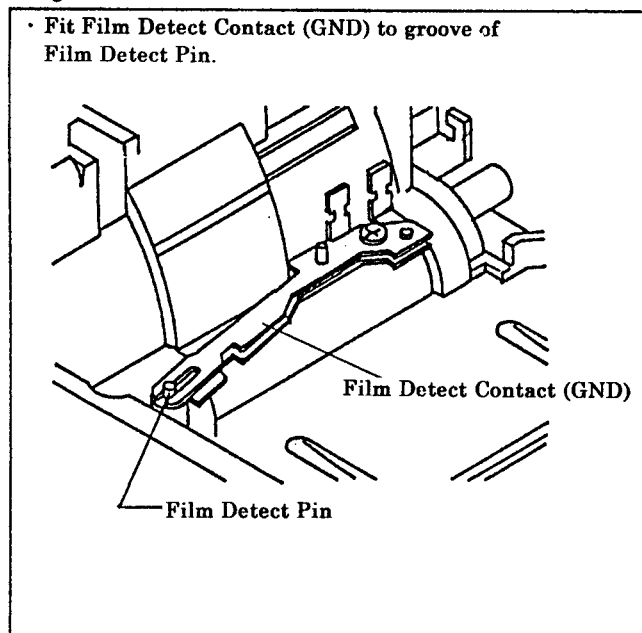
■ Install in the order of ① to ⑨.

■ After replacing Winding Baseplate Assy, perform Operation Check (pg. 7).



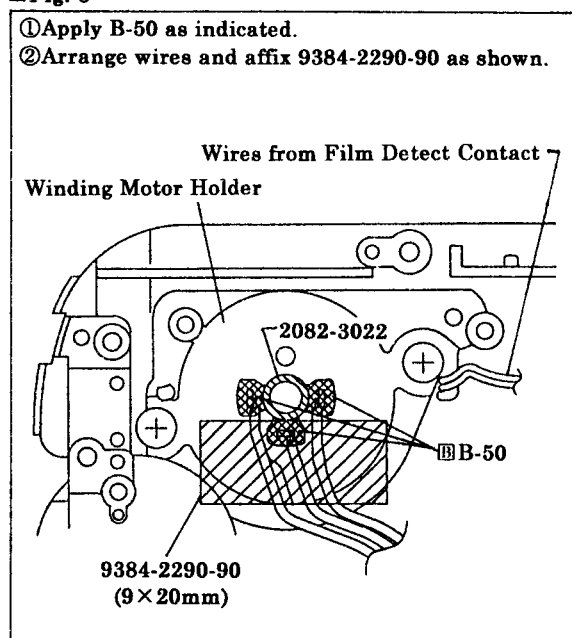
■ Fig. 2

- Fit Film Detect Contact (GND) to groove of Film Detect Pin.



■ Fig. 3

- ① Apply B-50 as indicated.
- ② Arrange wires and affix 9384-2290-90 as shown.

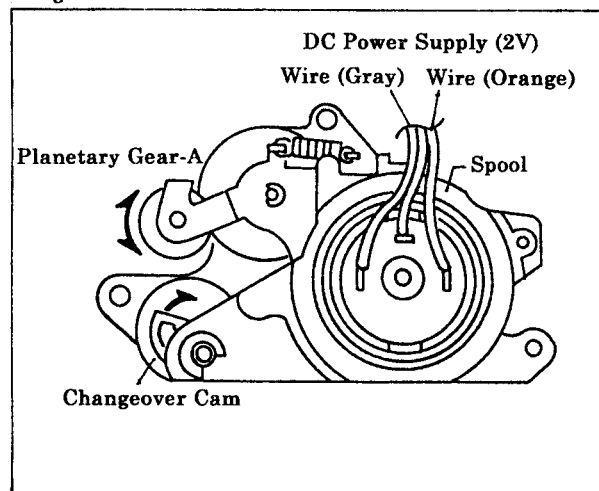


■ Winding Baseplate Assy Operation Check

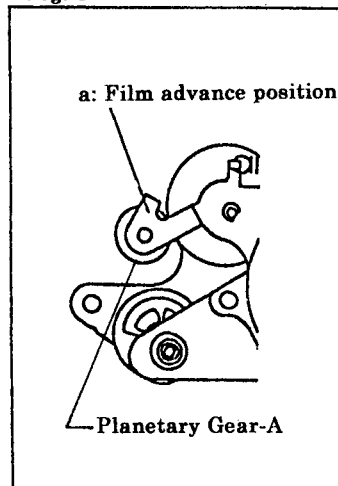
* Set DC Power Supply to 2V, 1A (Fig. 4).

1. Planetary Gear-A operation
Apply power to wires; Gray: +, Orange: -.
Check that Planetary Gear-A moves up and down.
2. Film advance
Apply power as above until Planetary Gear-A stops at position-a in Fig. 5.
Apply power to opposite wires; Gray: -, Orange: +.
Check that both Spool and Planetary Gear-A drive.
3. Film rewind
Apply power as above until Planetary Gear-A stops at position-b in Fig. 6.
Apply power to opposite wires; Gray: -, Orange: +.
Check that Planetary Gear-A drives solely.

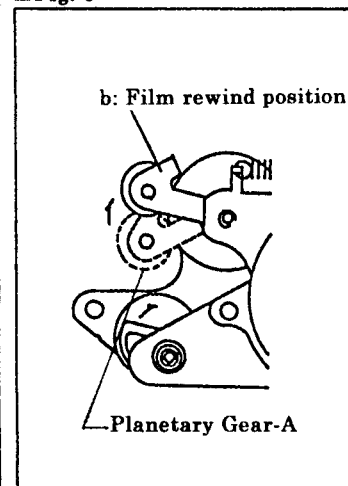
■ Fig. 4



■ Fig. 5

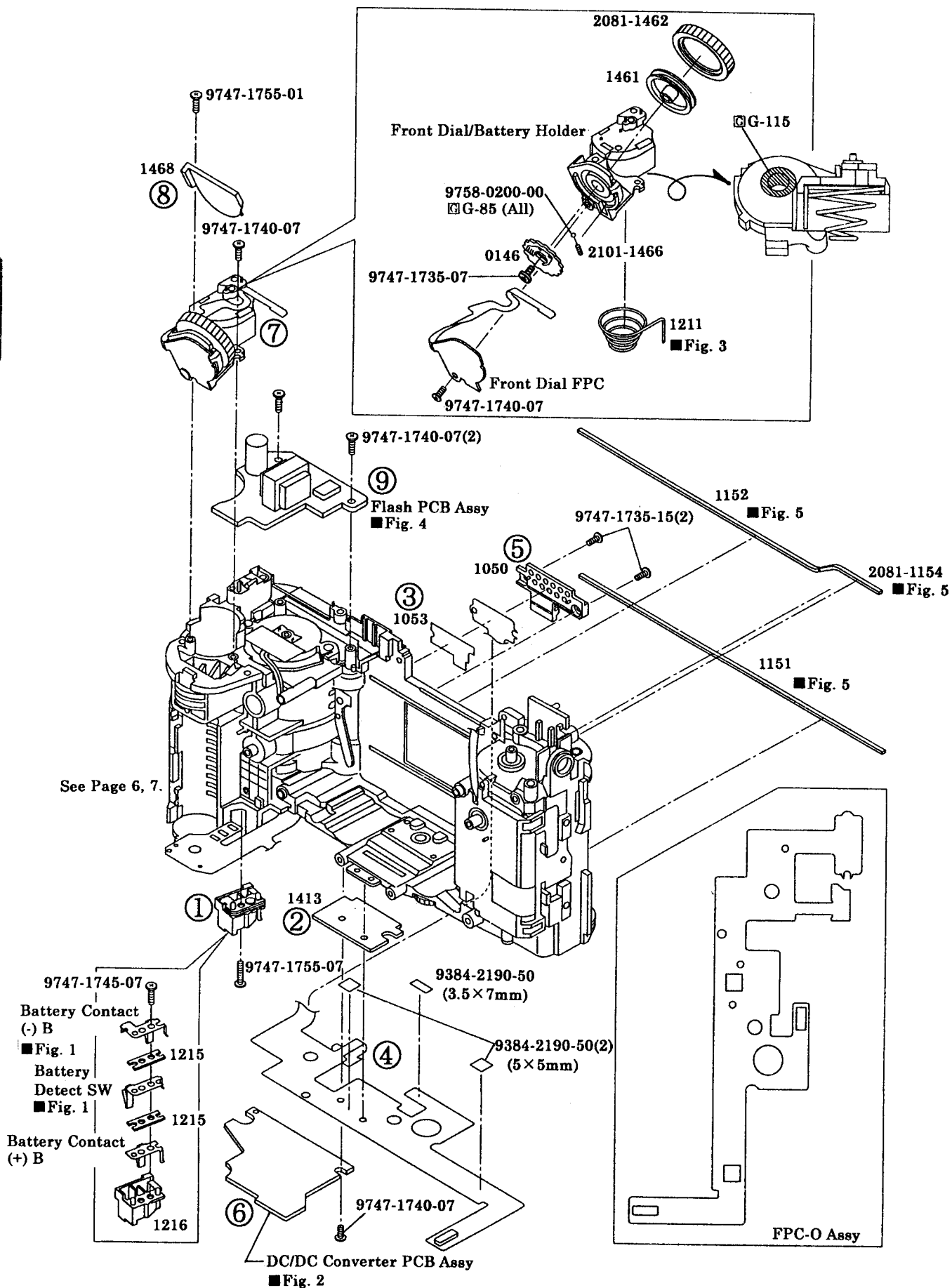


■ Fig. 6



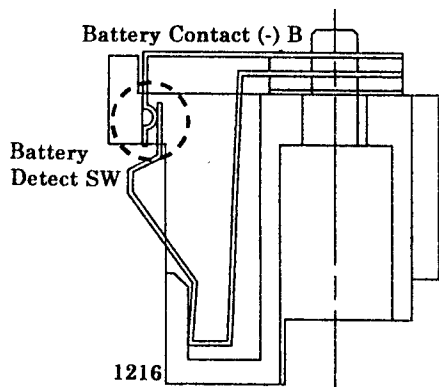
3 DC/DC Converter PCB Assy, Flash PCB Assy Installation

■ Install in the order from ① to ⑨.



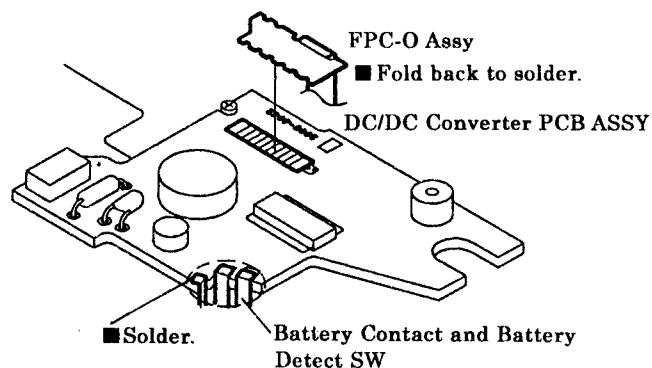
■ Fig. 1

- Install Battery Detect SW so that it contacts surely with Battery Contact (-) B as shown.



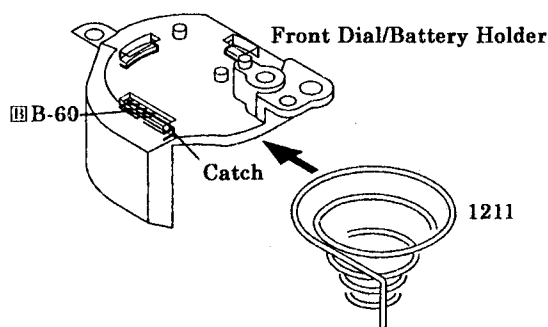
■ Fig. 2

- ① Install DC/DC Converter PCB Assy beneath Battery Contact and Battery Detect SW.
- ② Solder FPC-O Assy, Battery Contact, and Battery Detect SW.



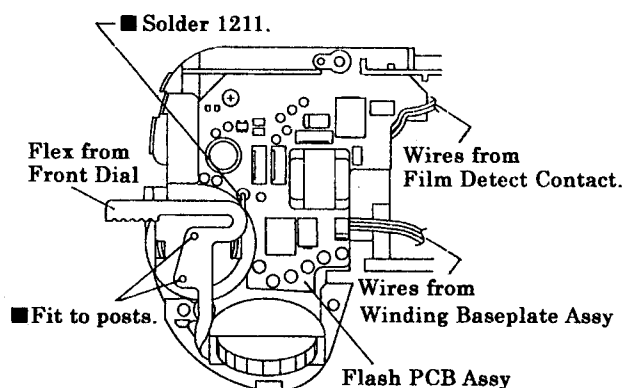
■ Fig. 3

- Insert 1211 to catch of Front Dial/Battery Holder in arrow direction. Then apply B-60 to shaded area.



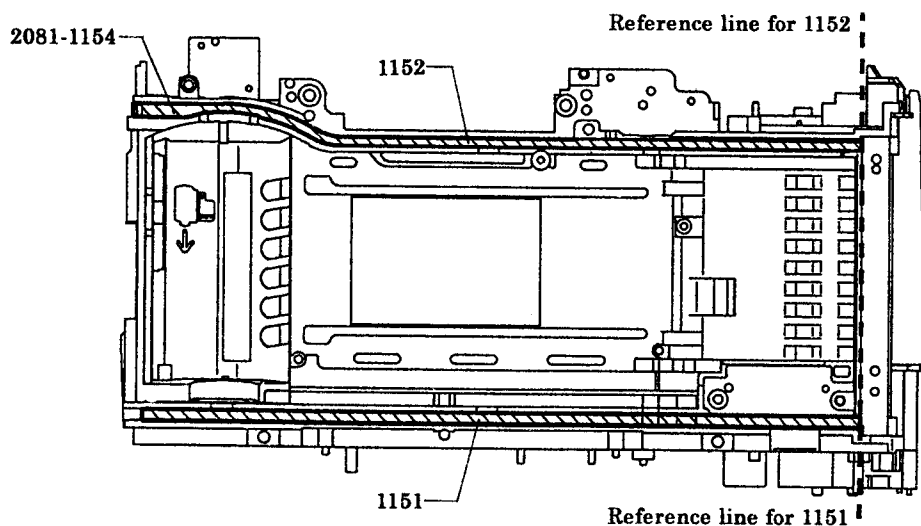
■ Fig. 4

- ① Install Flash PCB Assy and arrange wires and flex. from Front Dial.
- ② Solder 1211.



■ Fig. 5

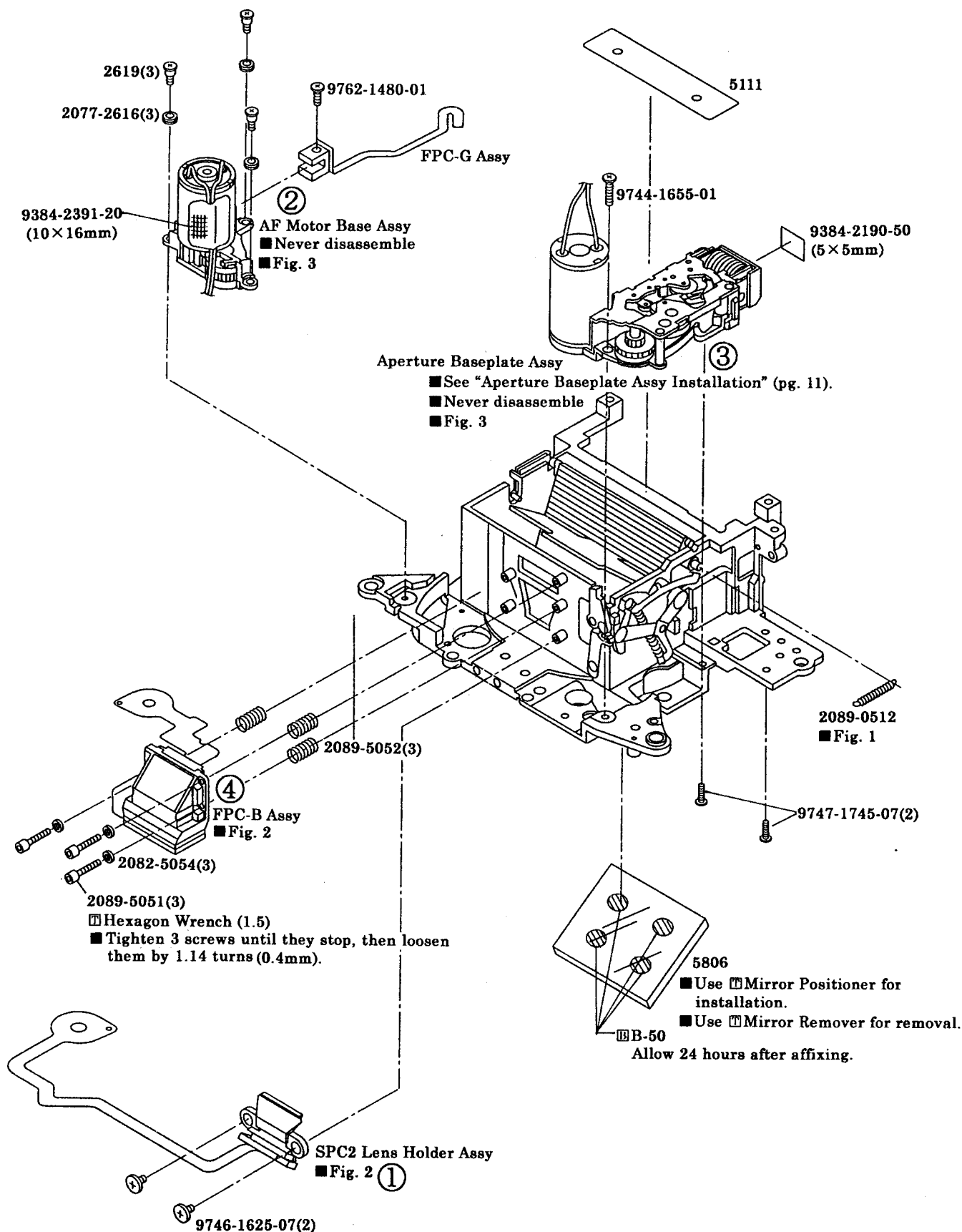
- Install 1151, 1152 and 2081-1154 in position.



Mirror Box Assy Assembly-I

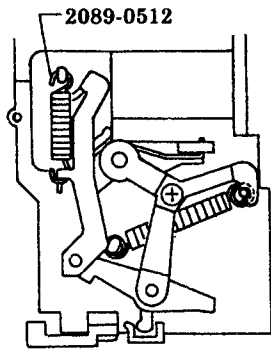
■ Install in the order of ① to ④.

■ After assembly, perform "Mirror Box Operation Check-1" (pg. 17).



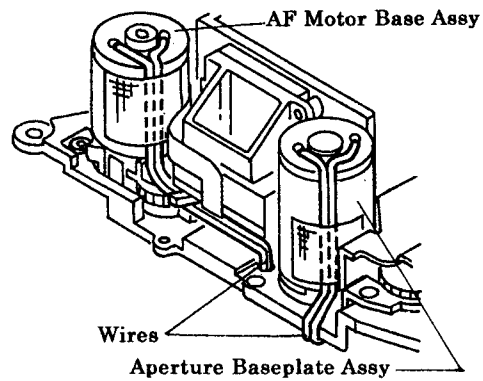
■ Fig. 1

- Hook 2089-0512 as shown.



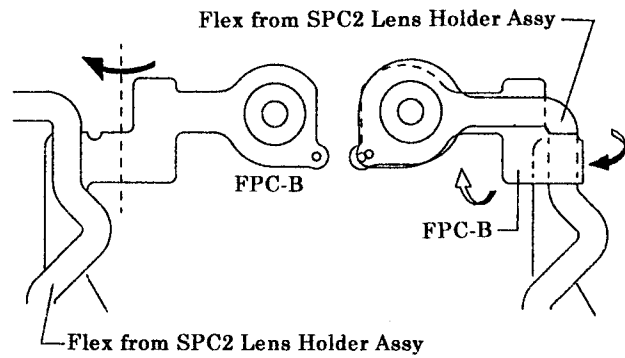
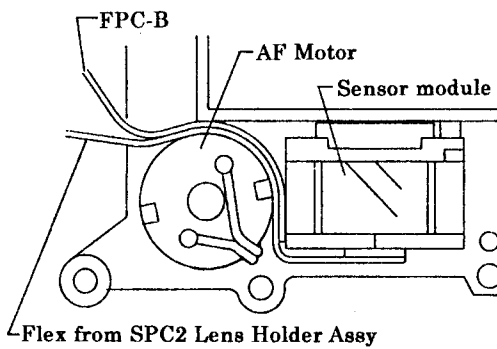
■ Fig. 3

- Wire arrangement



■ Fig. 2

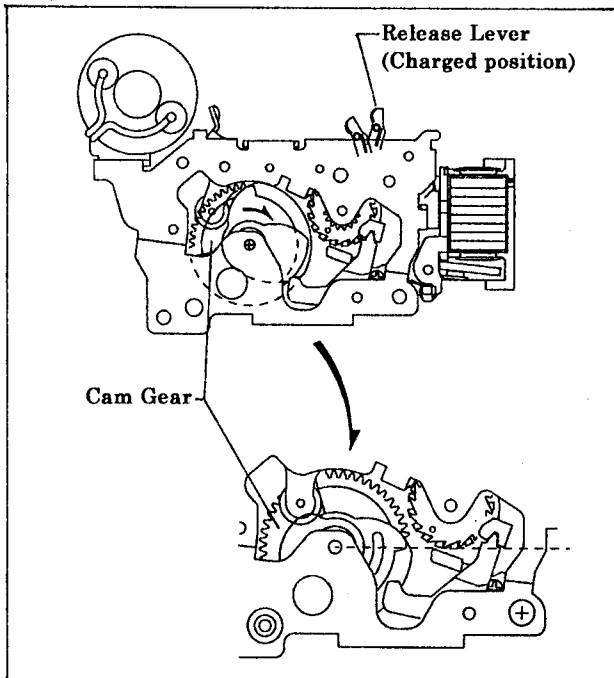
- Arrange FPC-B and flex from SPC2 Lens Holder Assy as shown.



■ Aperture Baseplate Assy Installation

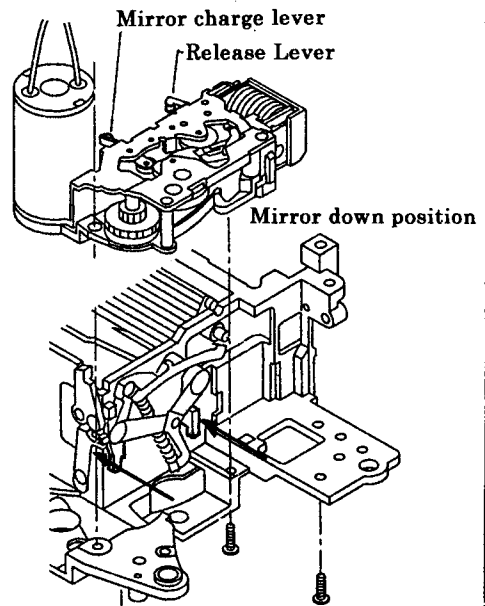
1. Turn Cam gear in the arrow direction until it stops in position of Fig. 4.
2. Check that the release lever is in position as in Fig. 4.
3. Install Aperture Baseplate Assy to Mirror Box as in Fig. 5.

■ Fig. 4



■ Fig. 5

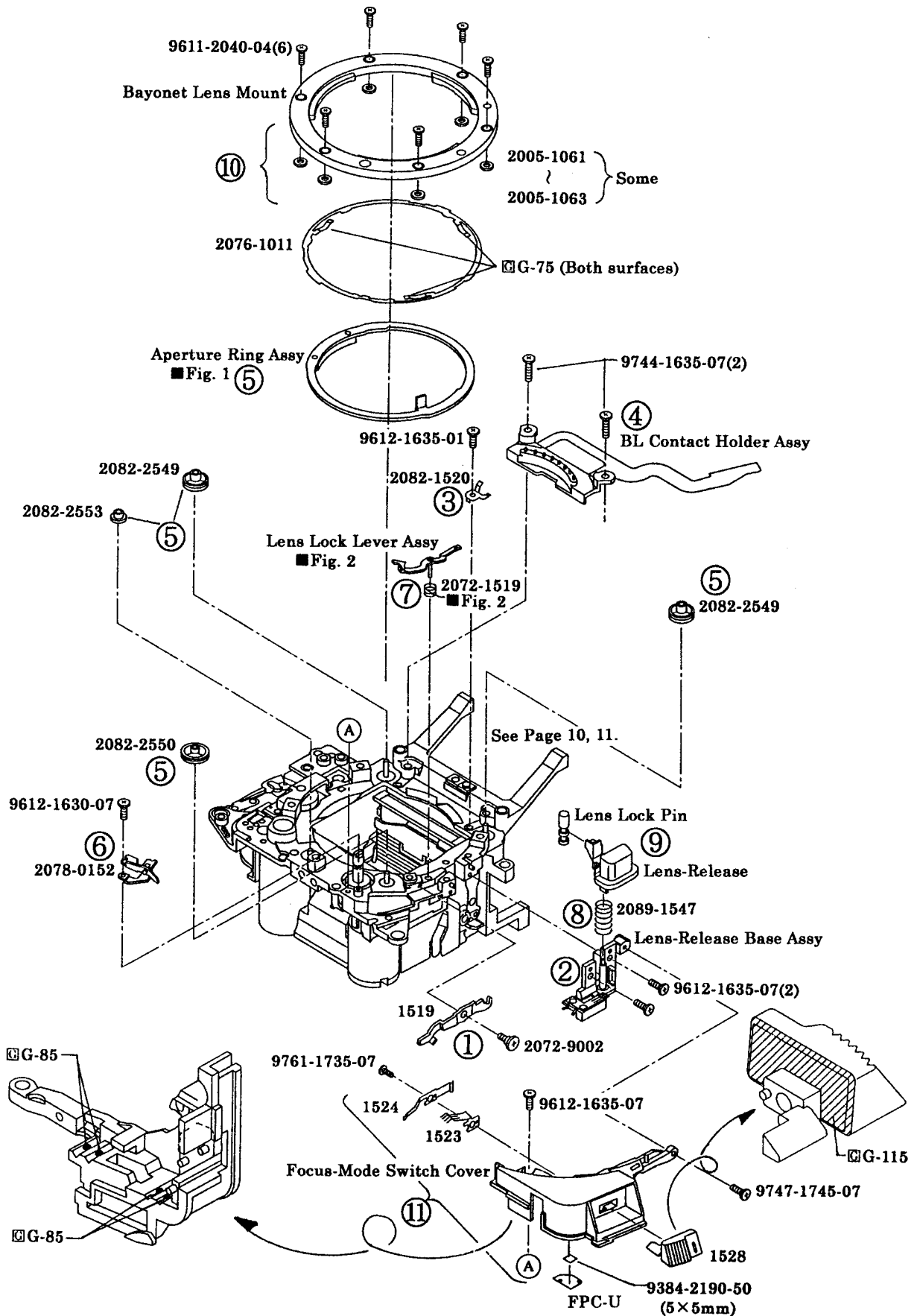
- Levers of Aperture Baseplate Assy should be stopped at the arrow positions.



■ Mirror Box Assy Assembly-II

■ Install in the order of ① to ⑪.

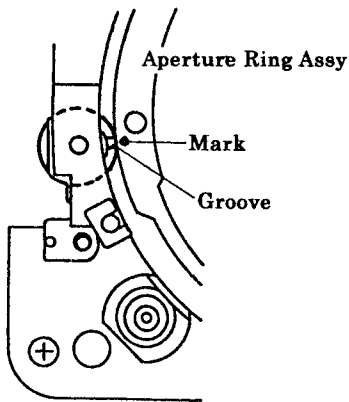
■ After assembly, perform "Mirror Box Operation Check-2" (pg. 17). And perform "AF Coupler Height Adjustment" (pg. 13.)



■ Fig. 1

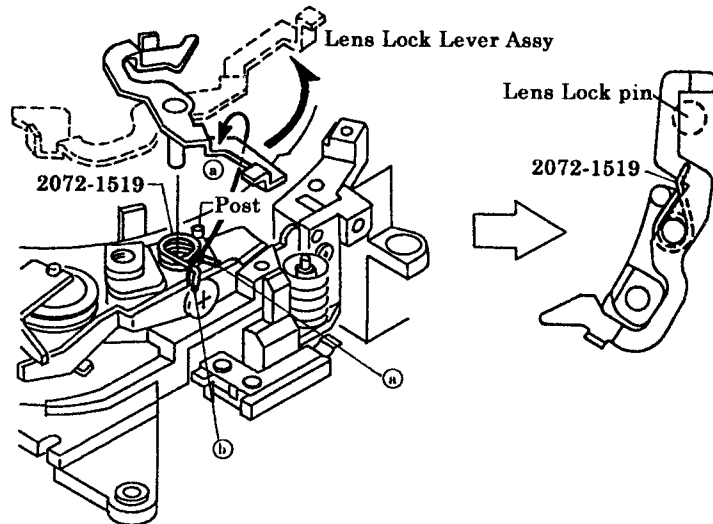
Aperture Ring Assy Installation

- ① Set Aperture Baseplate Assy in position as in "Mirror Operation Check-1-2 (pg. 17)
- ② Install Aperture Ring Assy aligning groove and mark.



■ Fig. 2

- ① Hook 2072-1519 part-Ⓐ to Mirror Box, part-Ⓑ to Lens Lock Lever Assy part-Ⓐ. Then turn it in arrow direction until it reaches broken-lines position.
- ② Install Lens Lock Lever Assy and Lens Lock Pin to hold it.



■ AF Coupler Height Adjustment

■ Check

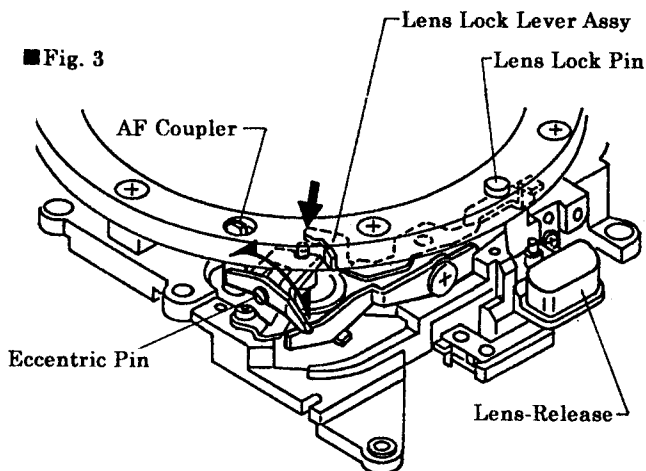
1. Press Lens-Release Button down until Lens-Release Pin levels to the lens mount. Check that AF coupler is not extruded beyond the lens mount.
2. Press Lens Lock Lever Assy in arrow direction (Fig. 3). Check that AF Coupler is extruded within the height as below.

Standard: 1.6mm to 1.8mm

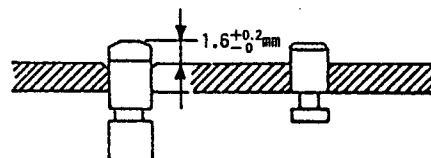
■ Adjustment

1. Adjust Eccentric Pin (Fig. 3) so that AF Coupler suffices both of the above check-1 and -2.

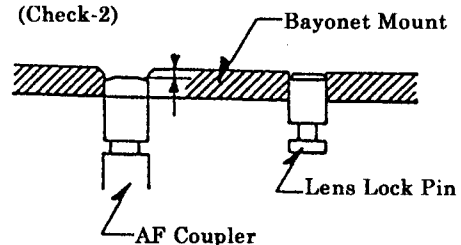
■ Fig. 3



(Check-1)

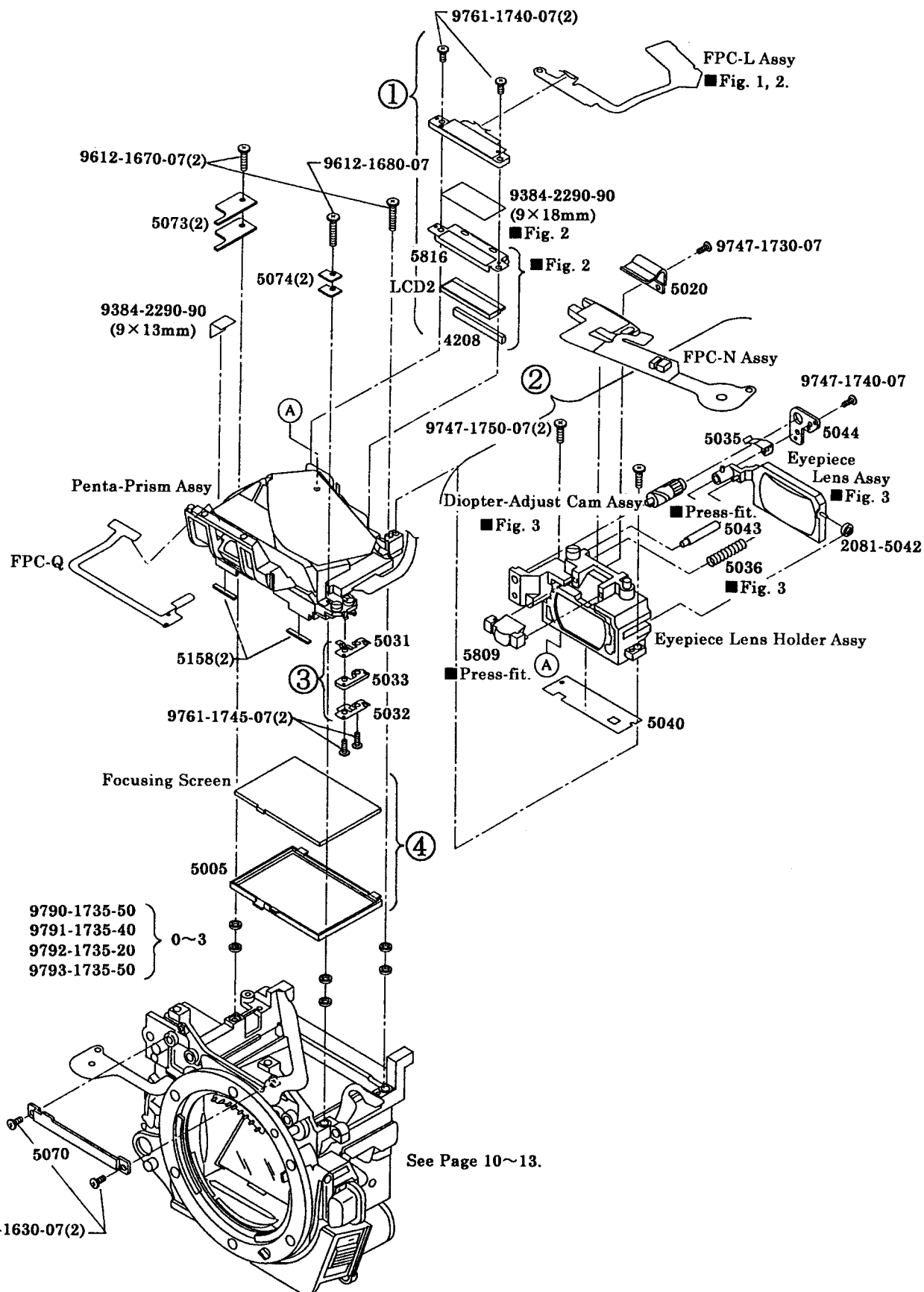


(Check-2)



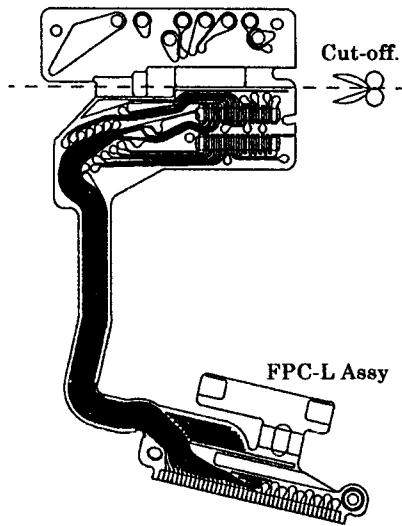
■ Penta-Prism Assy Installation

■ Install in the order of ① to ④.



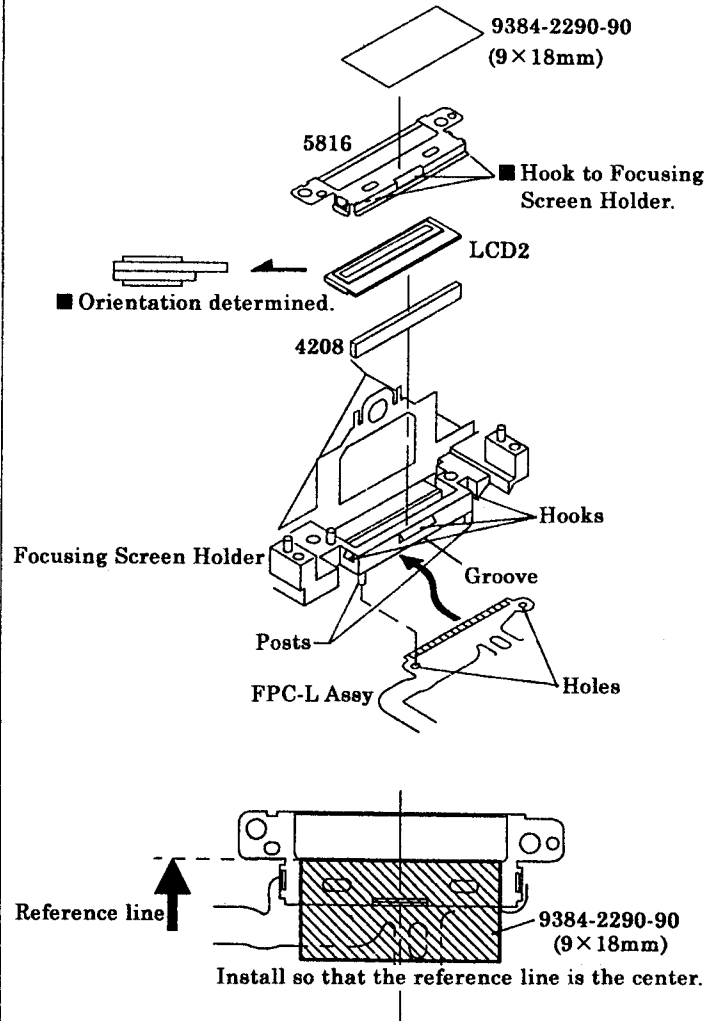
■ Fig. 1

- Cut off the FPC-L Assy before installation.



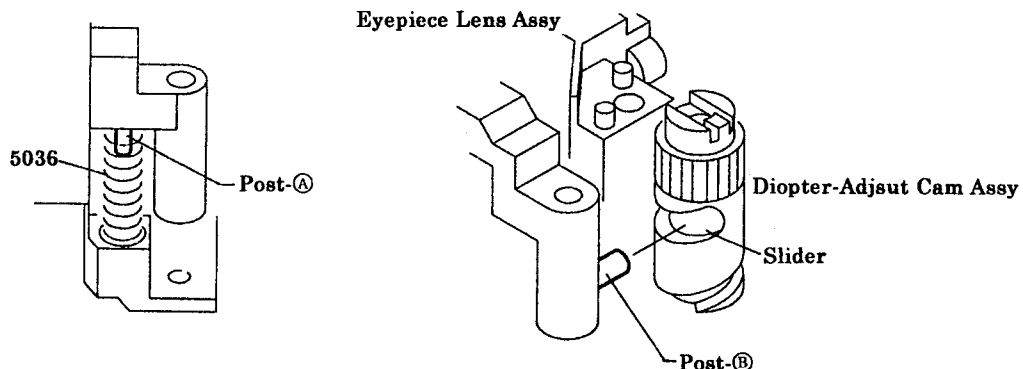
■ Fig. 2

- ① Inserting to groove of Penta-Holder, fit FPC-L Assy to the posts as shown.
- ② Install 4208 and LCD2, then hook 5816 to Penta-Holder.
- ③ Install 9384-2290-90 to shaded area.



■ Fig. 3

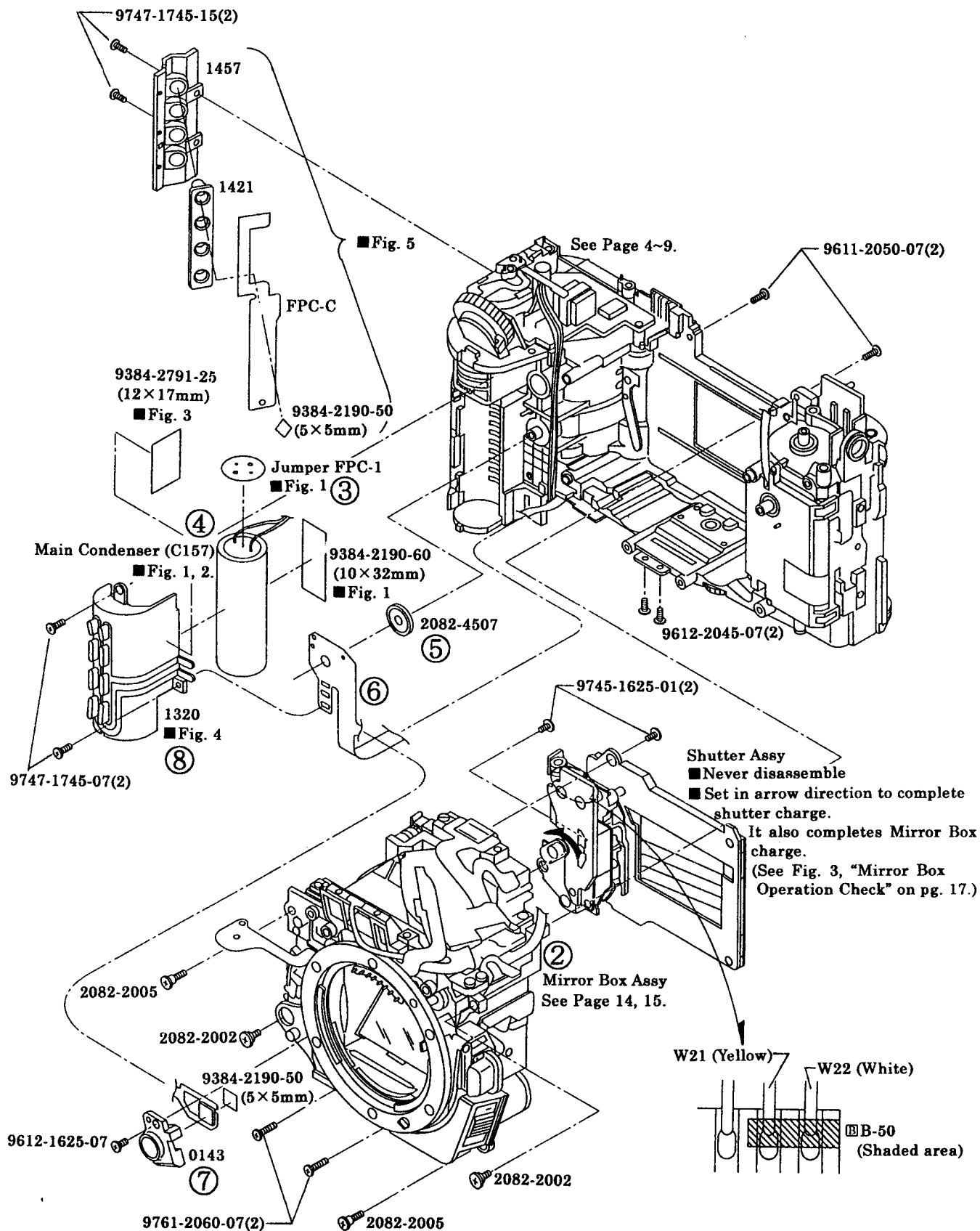
- Install Eyepiece Lens Assy to Diopter-Adjust Cam Assy fitting the post-Ⓑ to the slider. Be sure to fit 5036 to Eyepiece Lens Assy's post-Ⓐ.



4 Shutter Assy, Mirror Box Assy, Main Condenser Installation

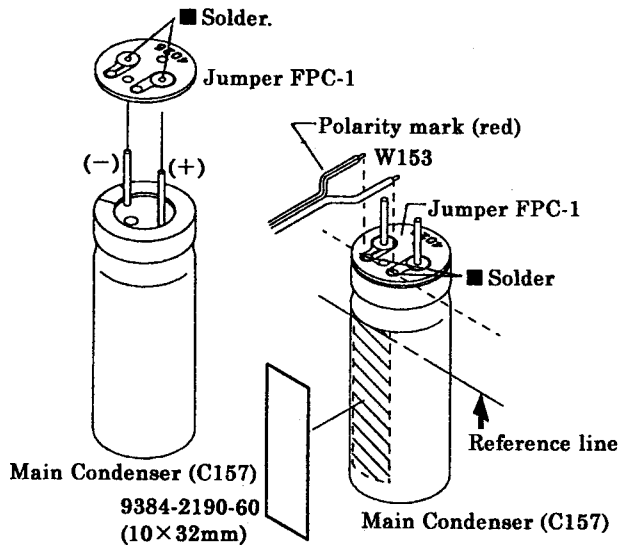
■ Install in the order of ① to ⑧.

■ After installing ① and ②, perform "Mirror Box Operation Check-3 (pg.17)."



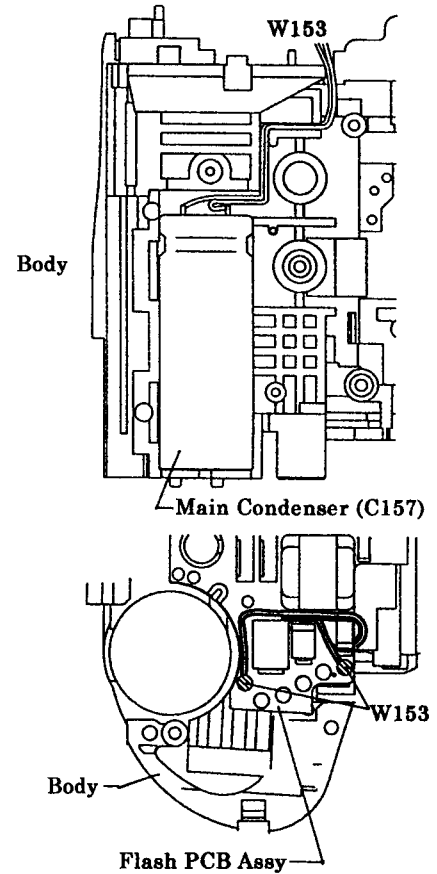
■ Fig. 1

- ① Solder Jumper FPC-1 to Main Condenser
- ② Solder W153 to Jumper FPC-1.
- ③ Affix 9384-2190-60 in position.



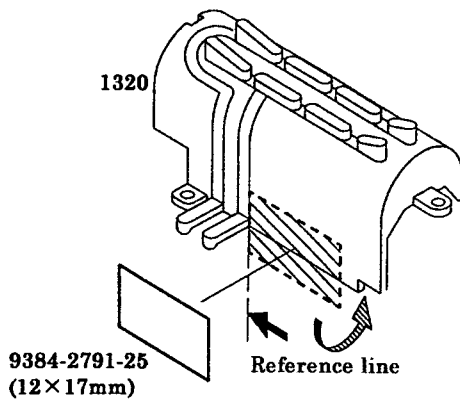
■ Fig. 2

- Affix Main Condenser (C157) to body, then arrange W153 as shown.



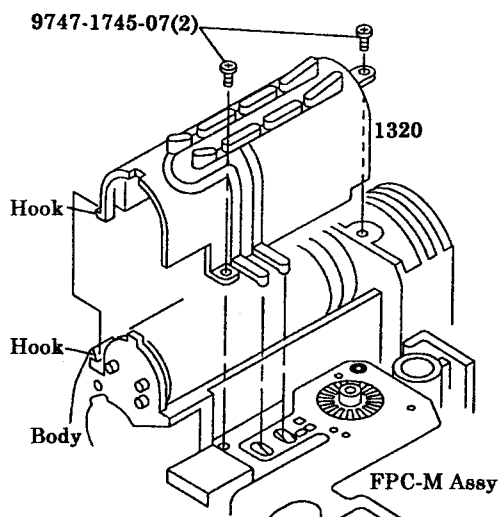
■ Fig. 3

- Install 9384-2791-25 in position.



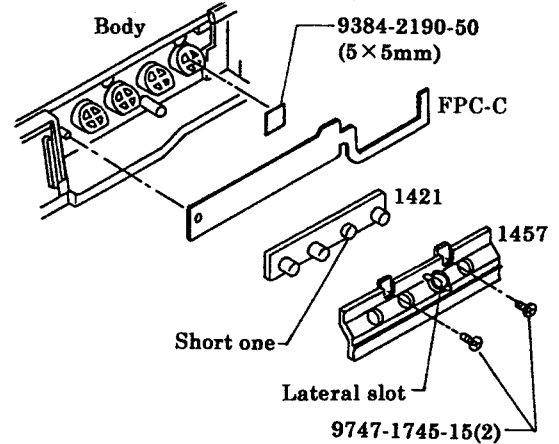
■ Fig. 4

- Hook 1320 to body.



■ Fig. 5

- ① Install 9384-2190-50 to the shaded area and affix FPC-C.
- ② Install 1421 and 1457 as shown.



■ Mirror Box Operation Check

■ Check-1

After "Mirror Box Assembly-I" (pg. 10-11)

1. Press SL-2 at part-A in arrow direction (Fig. 1). Mirror goes up.
2. Press SL-2 at part-b in arrow direction (Fig. 1). Aperture-transmitting gear stops in position as in Fig. 2.
3. Insert jig #2082-2504-75 into hole-c (Fig. 2), turn it clockwise until Cam-gear makes one turn (Fig. 3).
Aperture-transmitting gear and mirror are reset.

■ Check-2

After "Mirror Box Assembly-II" (pg. 12-13)

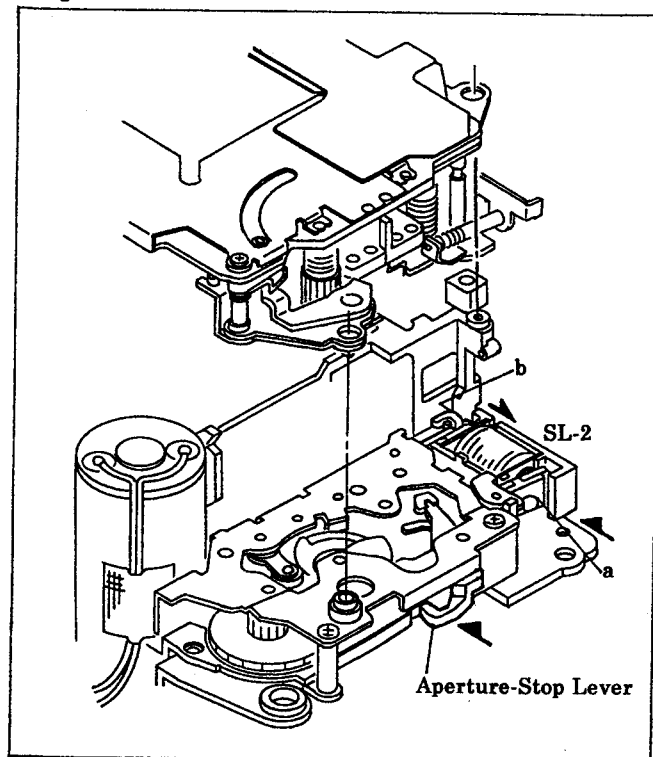
1. Insert jig #2082-2504-75 into hole-c (Fig. 2), turn it clockwise until Cam-gear makes one turn (Fig. 3).
Aperture Ring Assy and mirror are reset.
2. Press SL-2 at part-a in the arrow direction (Fig. 1). Mirror goes up.
3. Press SL-2 at part-b in the arrow direction (Fig. 1). Aperture Ring Set stops down. (Cut aligns marking as Fig. 2.)
4. Repeat step-1.

■ Check-3

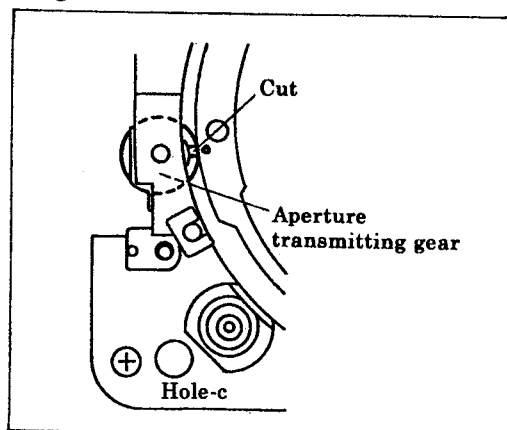
After "Shutter Assy Installation" (pg. 16)

1. Press Aperture-stop lever in arrow direction (Fig. 1). Aperture Ring Assy stops down.
2. Press SL-2 at part-a in arrow direction (Fig. 1). Mirror goes up and shutter runs.
3. Insert jig #2082-2504-75 into hole-c (Fig. 2), and turn it clockwise until Cam-gear makes one turn (Fig. 3). Aperture Ring Set, Mirror and Shutter are reset.

■ Fig. 1

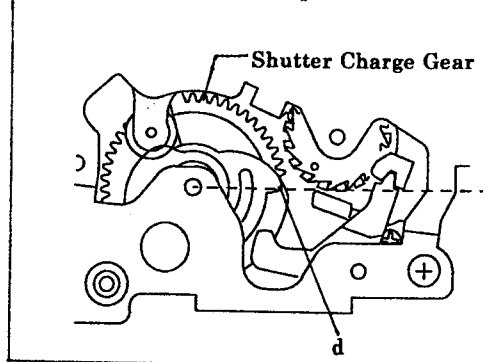


■ Fig. 2



■ Fig. 3

■ Charged position:
Gear-d is in horizontal position



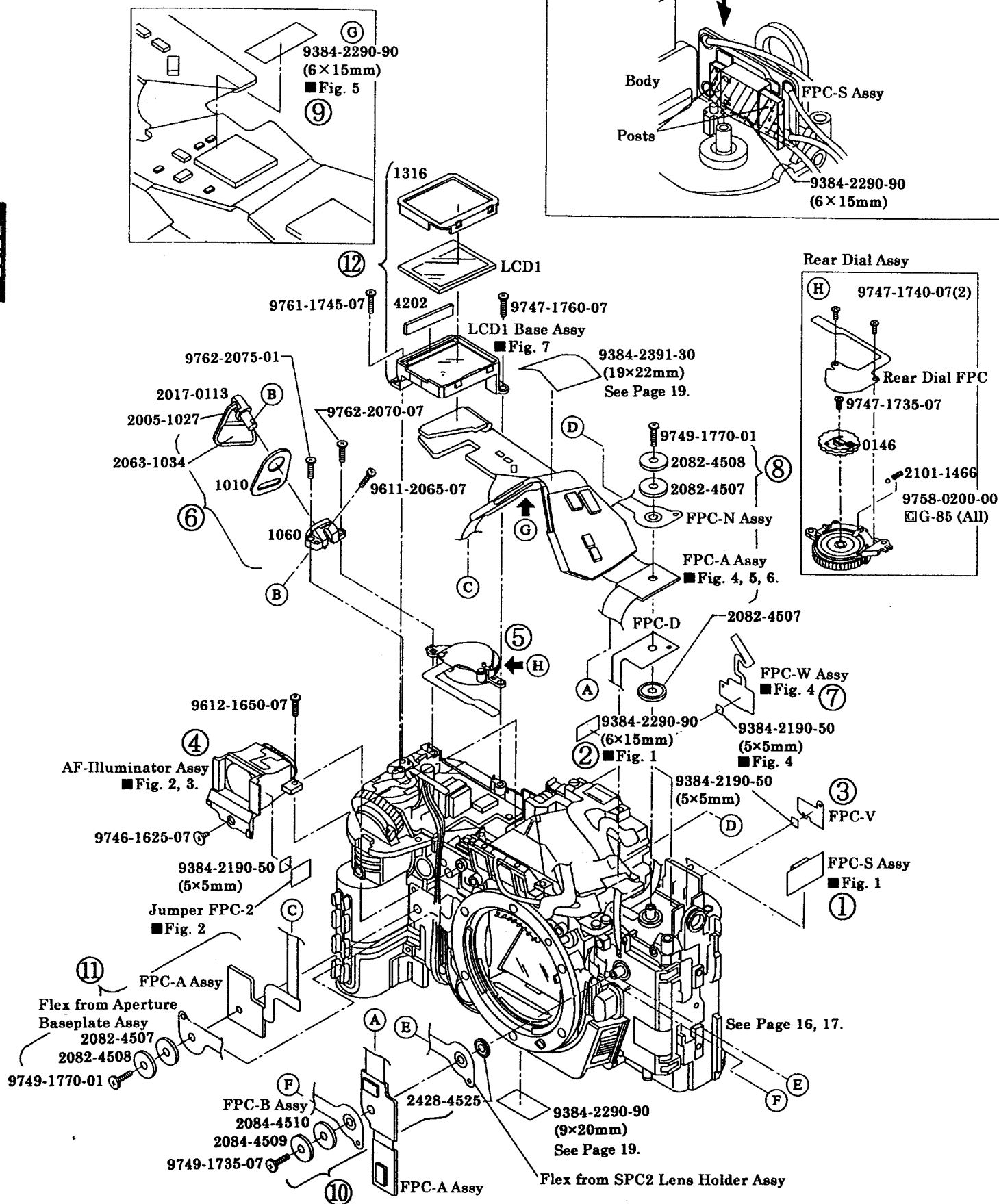
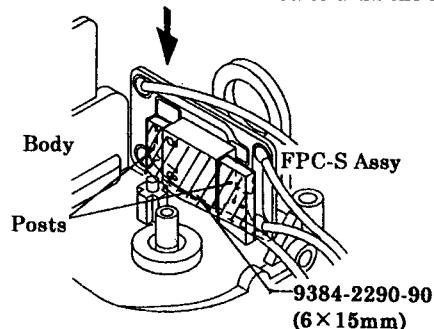
5 AF Illuminator Assy, FPC-A Assy Installation

■ Install in the order from ① to ⑫.

■ Arrange wires referring to page 19.

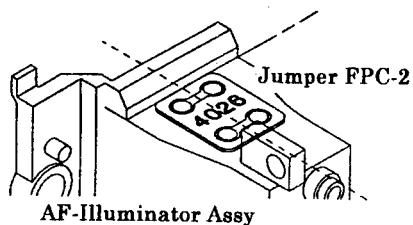
■ Fig. 1

- Set FPC-S Assy so that the electric element is in between posts of the body.
- Affix 9384-2290-90 to shaded area to affix the FPC-S Assy.



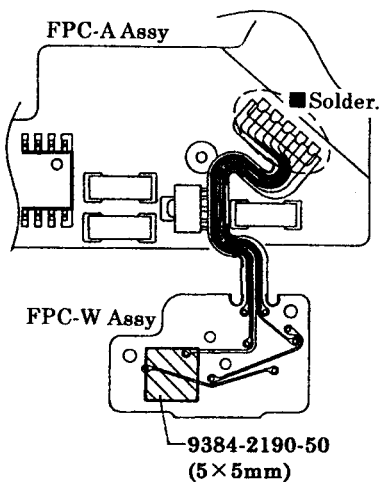
■ Fig. 2

- Affix 9384-2190-50 to affix Jumper FPC-2.



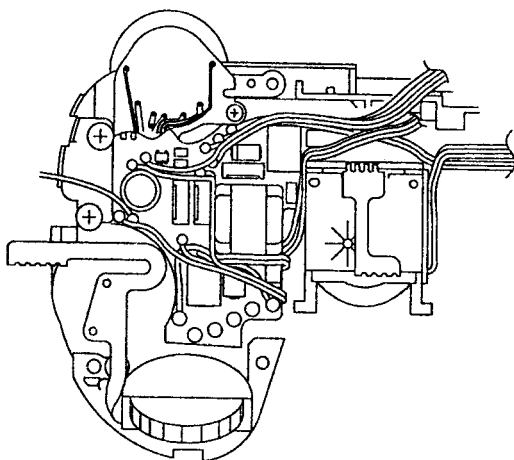
■ Fig. 4

- Before installing FPC-A Assy, solder FPC-W Assy to FPC-A Assy.
- Install 9384-2190-50 to shaded area.



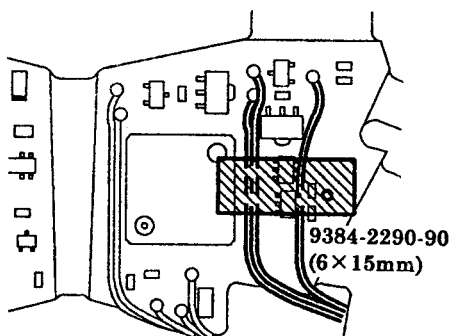
■ Fig. 3

- Solder enamel wire from FMg and arrange all other wires.

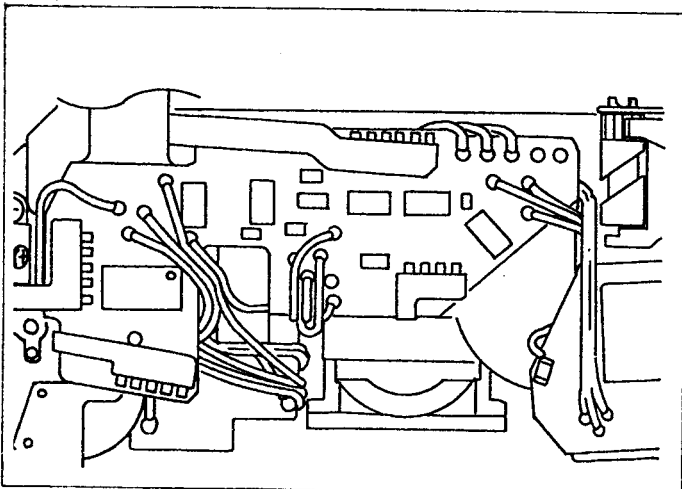


■ Fig. 5

- Arrange wires and affix 9384-2290-90 to shaded area.

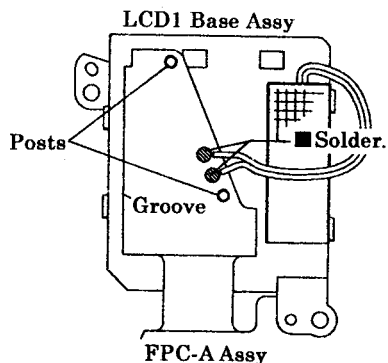


■ Fig. 6

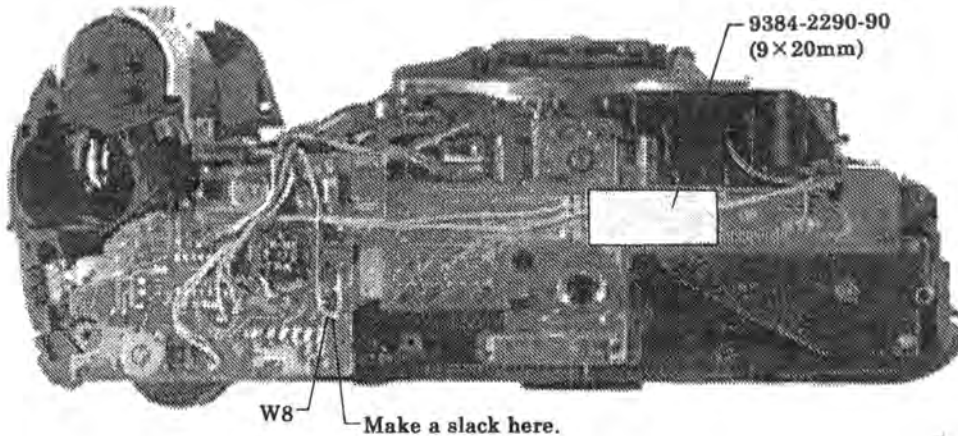
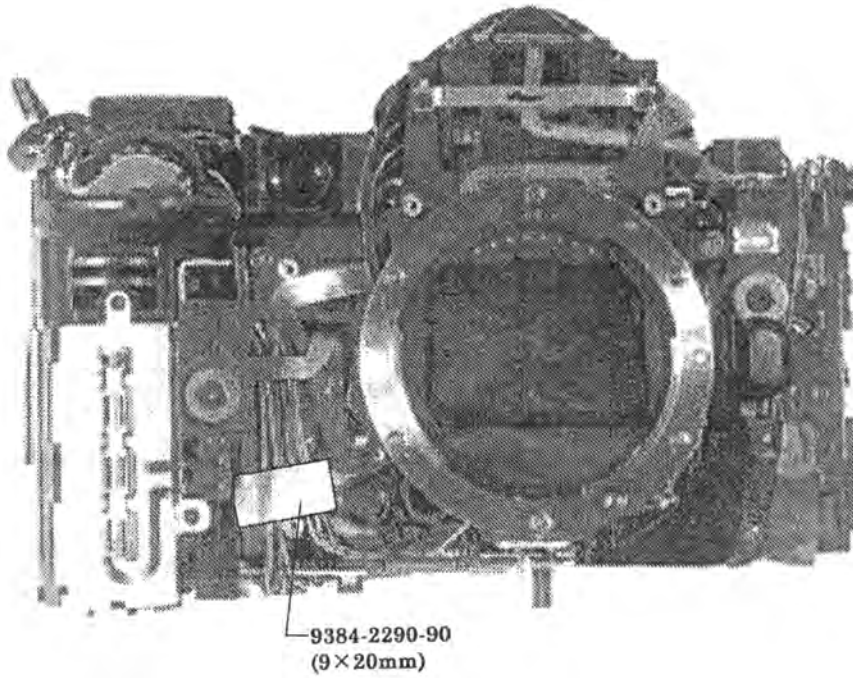
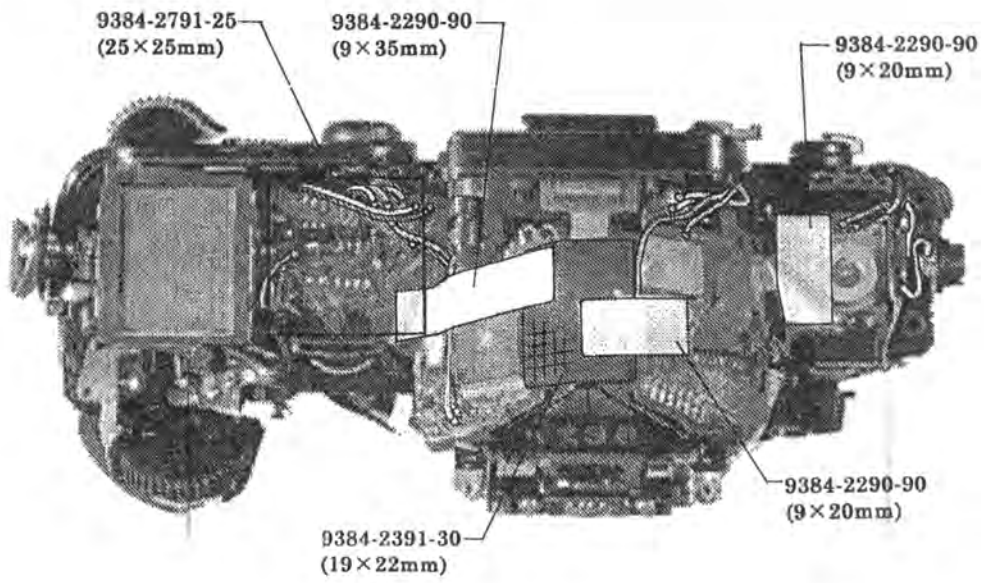


■ Fig. 7

- Install FPC-A Assy to LCD1 Base Assy inserting to groove and fitting to posts.



■ Wires arrangement



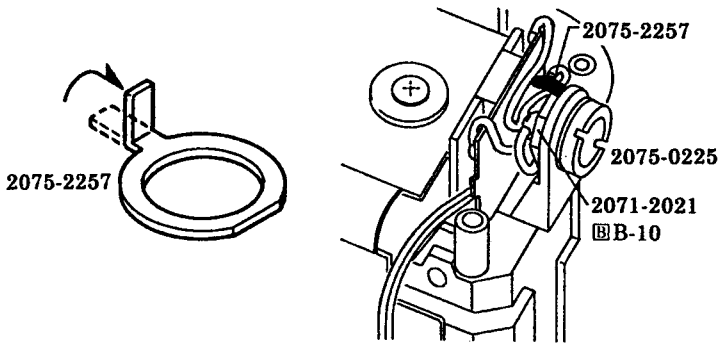
- Be sure to discharge Main Condenser before disassembly. (pg.2)
- Install in the order of ① to ②. Several adjustments should have been completed before installing certain parts. See Table-1 below.
- Before installing Front Cover Assy, be sure to open main Sw. circuit on FPC-A, or cut the pattern on FPC-V. (pg. 3)

Parts	Adjustment (page)
⑧Eyepiece Assy	SPC Position (45)
⑪9384-2791-25	1/12000 SS (43)
⑫Bottom Cover	AF Area (55) Pitch, Yaw (56)
⑫②Front Cover Assy	Field of View (41) Focus Area LED (42)



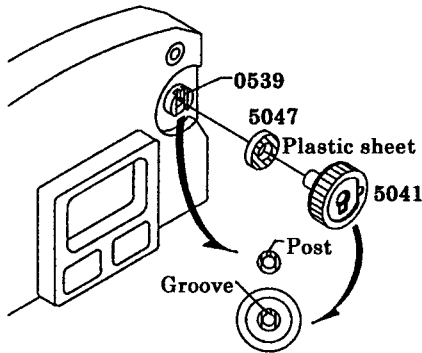
■ Fig. 1

- Upright 2075-2257 as shown. And install it in position.
- Arrange wires.



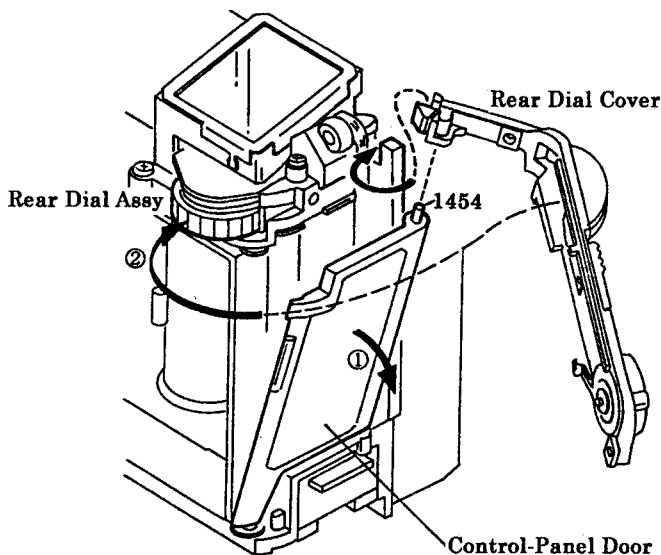
■ Fig. 3

- Install 5041 to 0539 fitting groove to post.



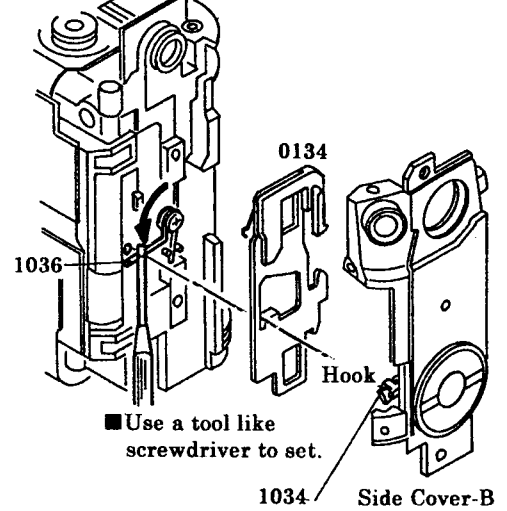
■ Fig. 5

- ① Holding Control-Panel Door inclined in arrow direction, install Rear Dial Cover to 1454.
- ② Turn Rear Dial Cover in arrow direction to install to body and Rear Dial Assy.
- ③ Arrange wires.



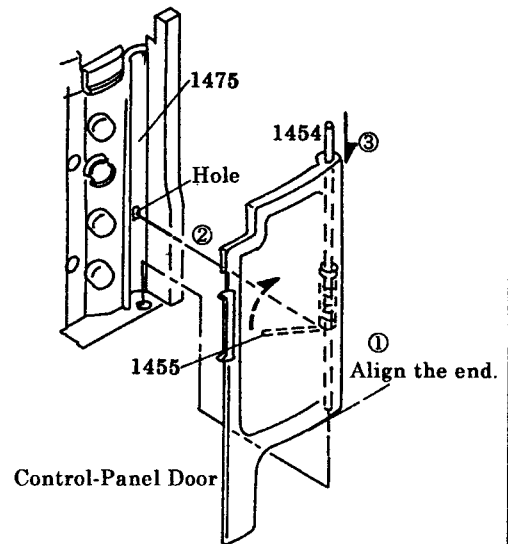
■ Fig. 2

- Set 1036 to charged position with a screwdriver.
- Then install 0134 and Side cover-B.
- Hook 1036 to 1034.

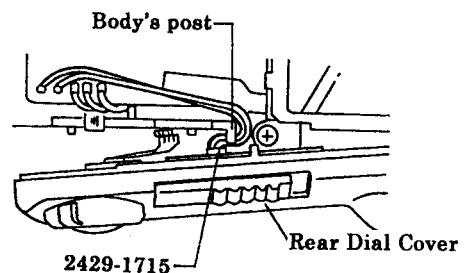


■ Fig. 4

- ① Install 1454 so that its end aligns with bottom of Control Panel Door
- ② Holding 1455 in arrow direction, insert it to the 1475's hole so that Control-Panel Door is installed.
- ③ Push 1454 in arrow direction until it stops.

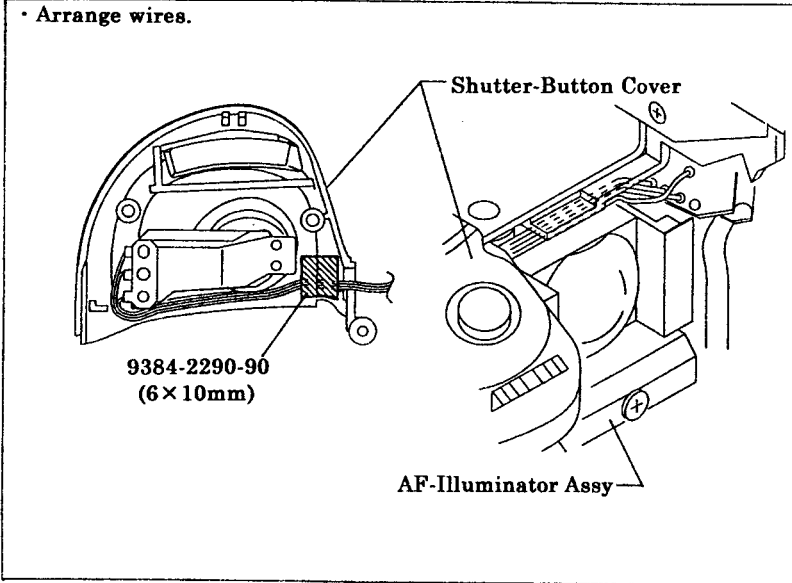


- ③ Hook wires to the body's post.



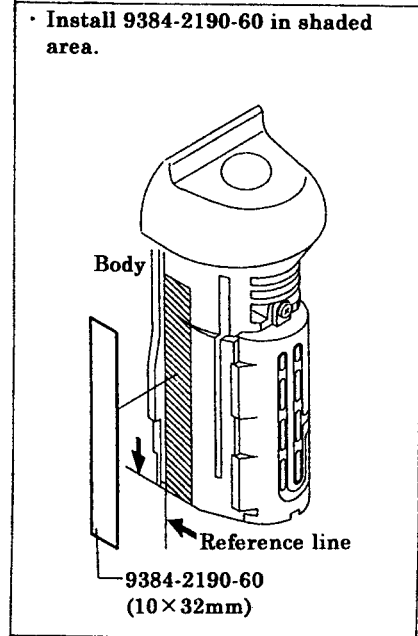
■ Fig. 6

- Arrange wires.



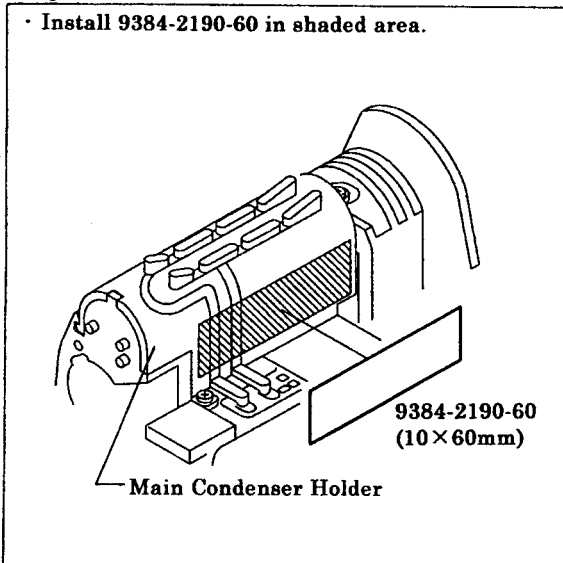
■ Fig. 7

- Install 9384-2190-60 in shaded area.



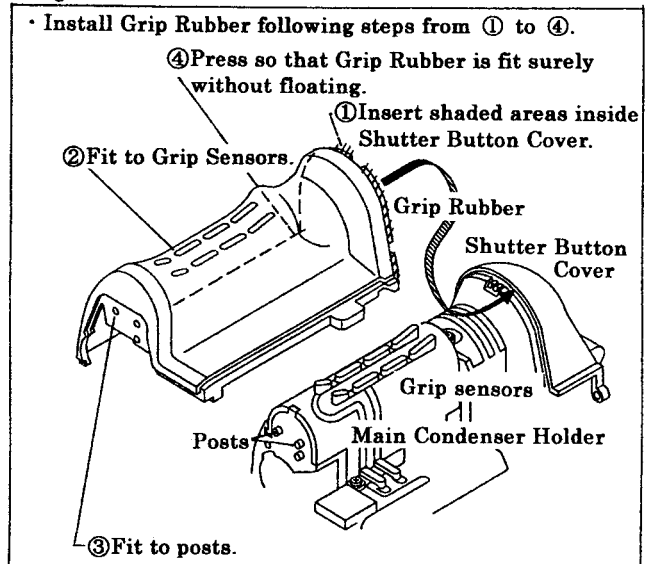
■ Fig. 8

- Install 9384-2190-60 in shaded area.



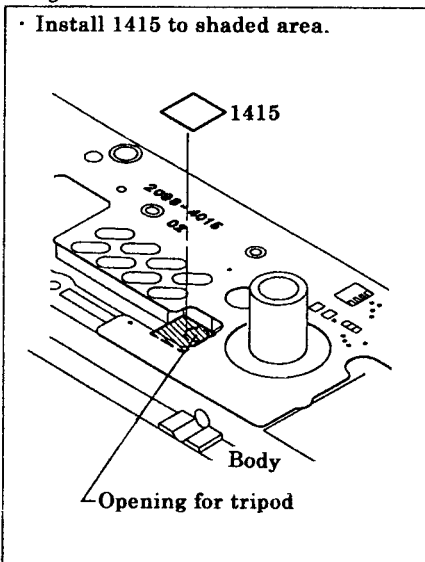
■ Fig. 9

- Install Grip Rubber following steps from ① to ④.



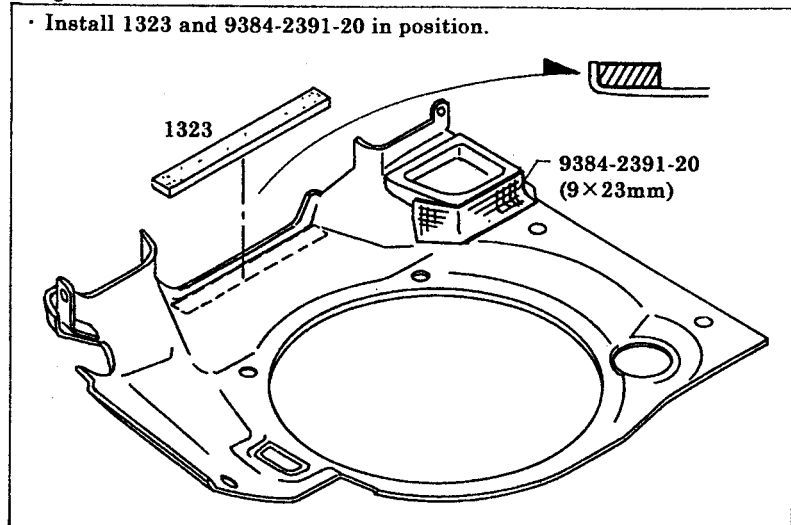
■ Fig. 10

- Install 1415 to shaded area.

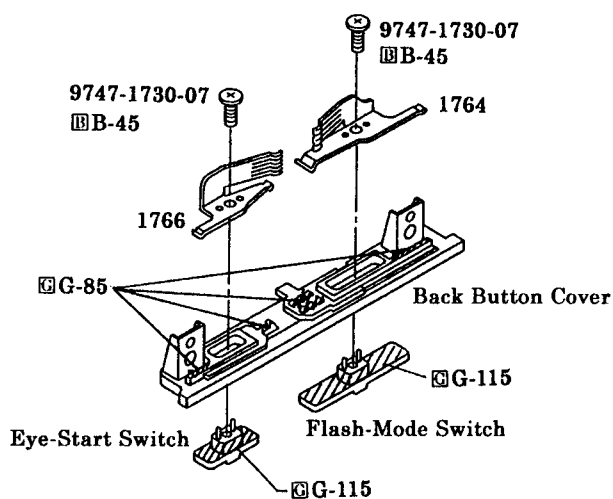
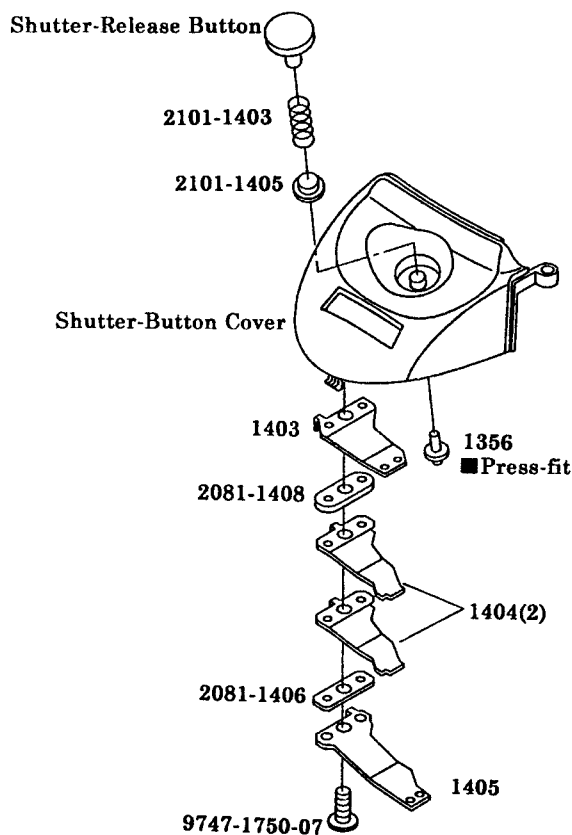
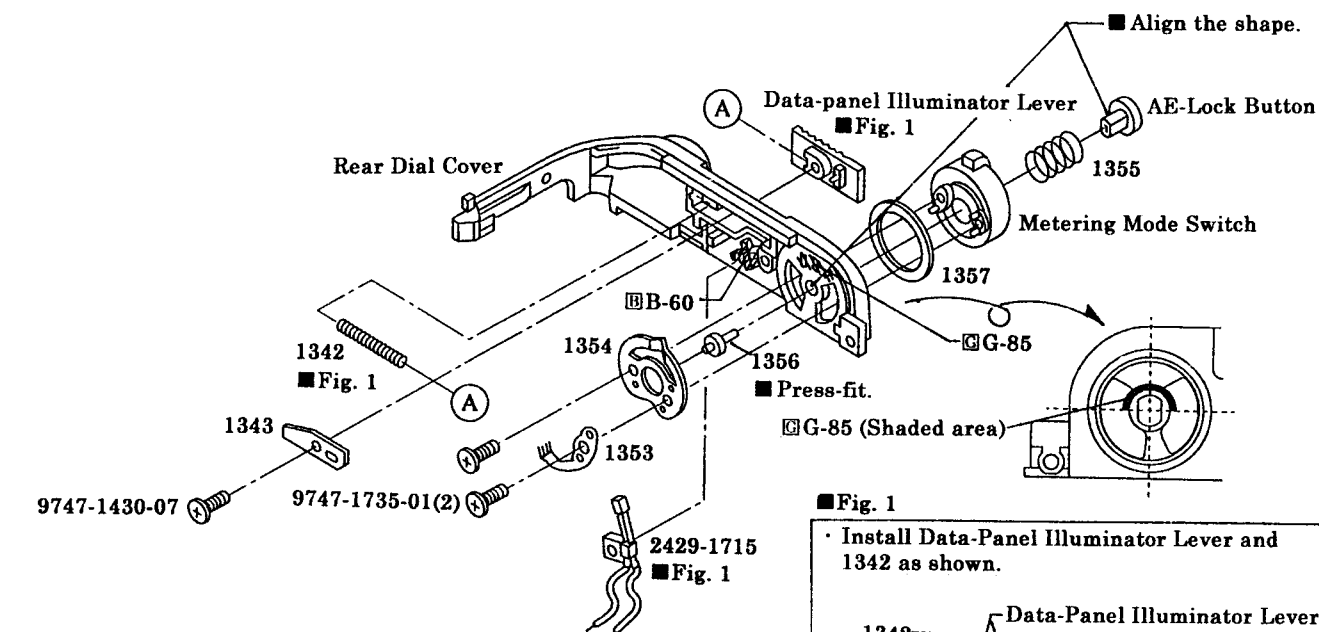


■ Fig. 11

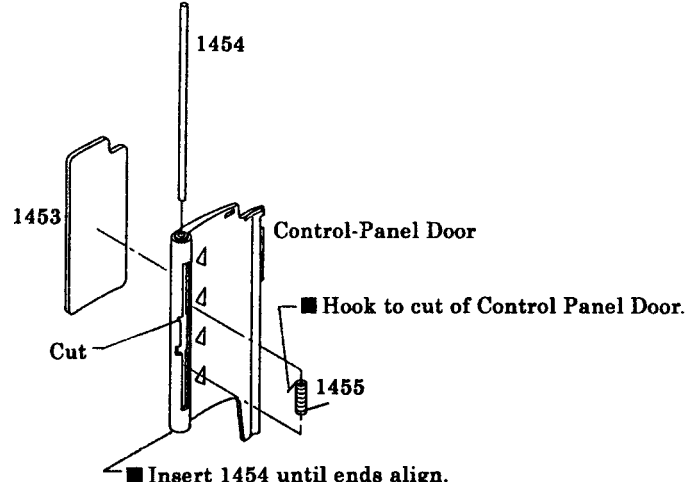
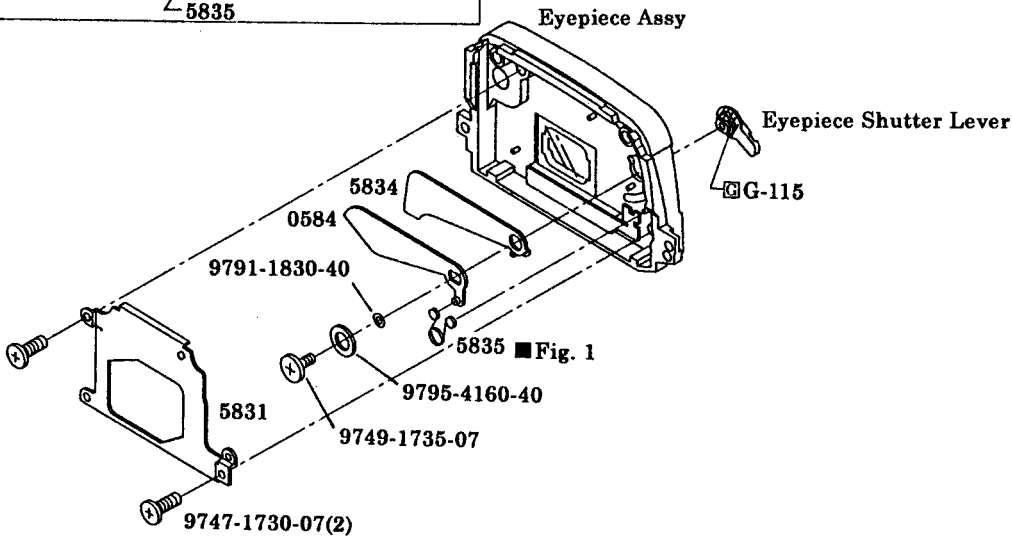
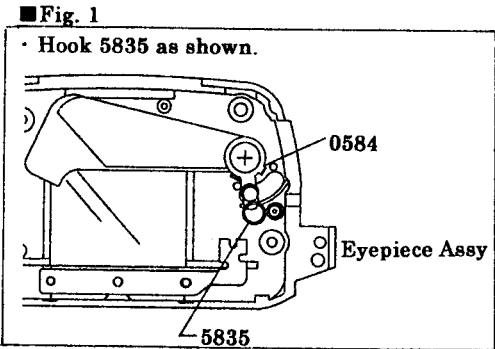
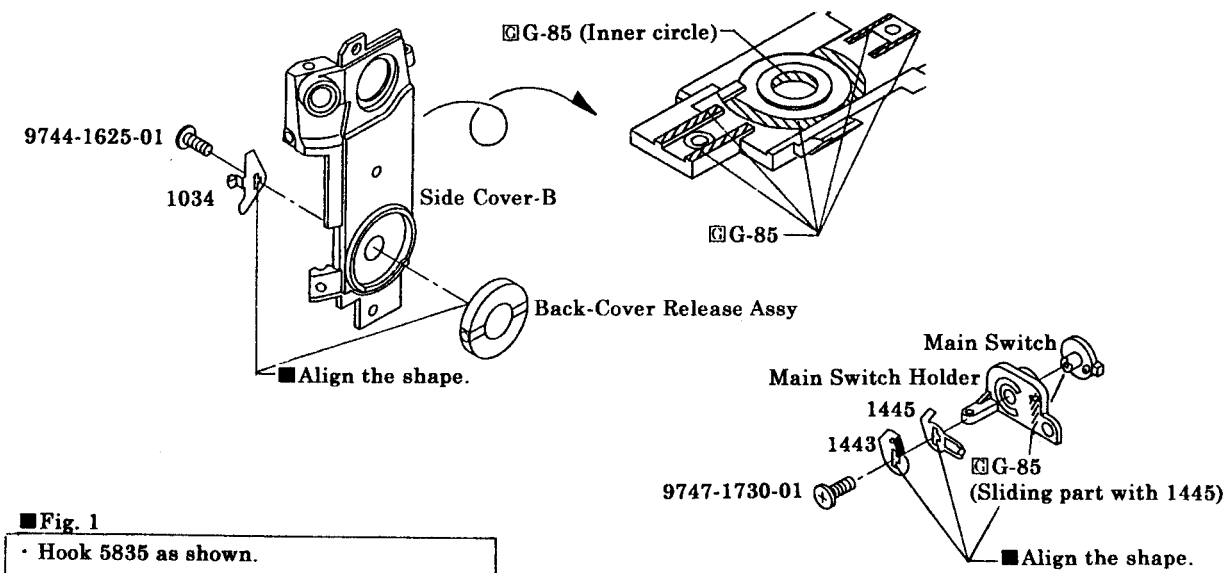
- Install 1323 and 9384-2391-20 in position.



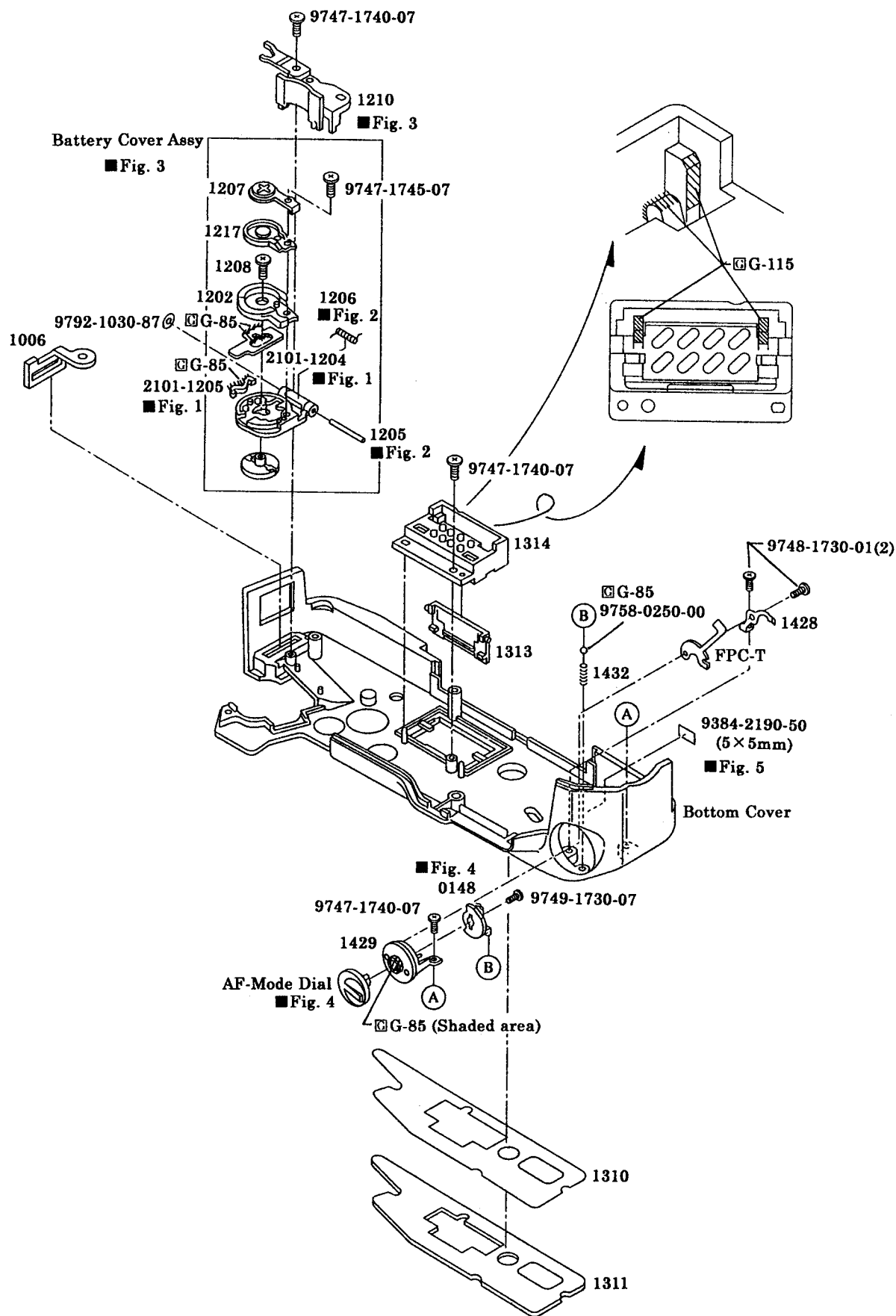
Rear Dial Cover, Shutter Button Cover, Back Button Cover Assembly



Side Cover-B, Main Switch Holder, Eyepiece, Control-Panel Door Assembly

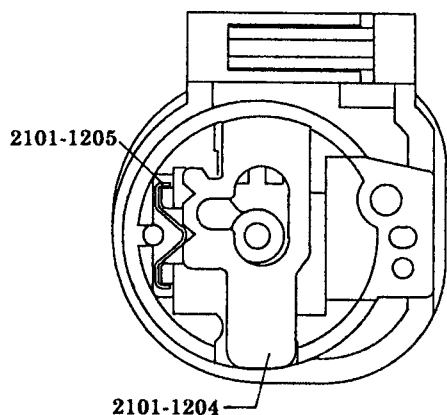


■ Bottom Cover Assembly



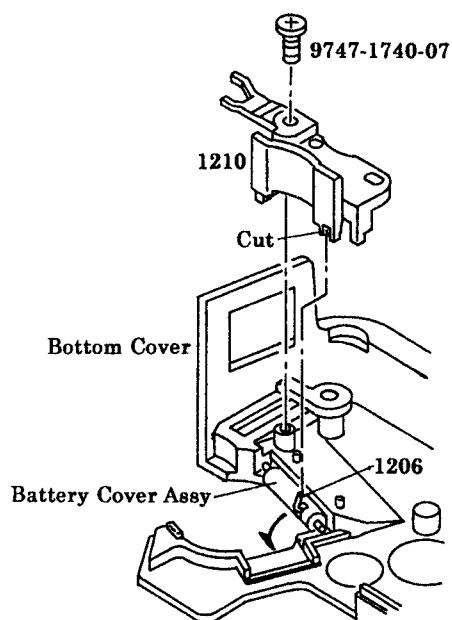
■ Fig. 1

- Hook 2101-1204 and 2101-1205 as shown.



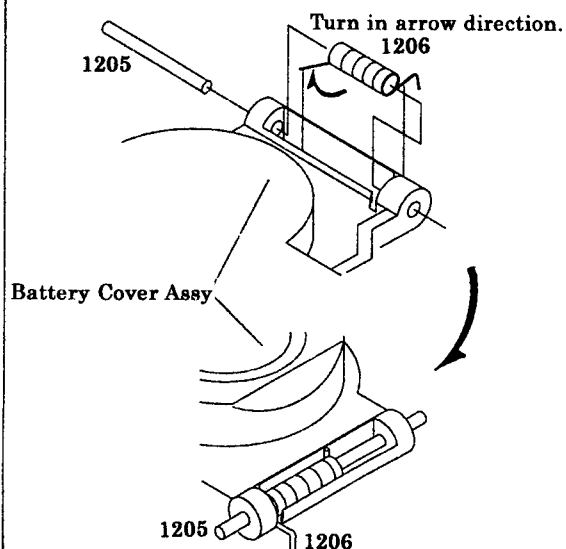
■ Fig. 3

- Holding Battery Cover Assy in arrow direction, hook 1206 to 1210 cut.



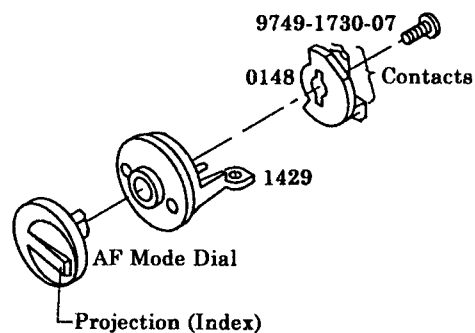
■ Fig. 2

- Turn 1206 in arrow direction to install.



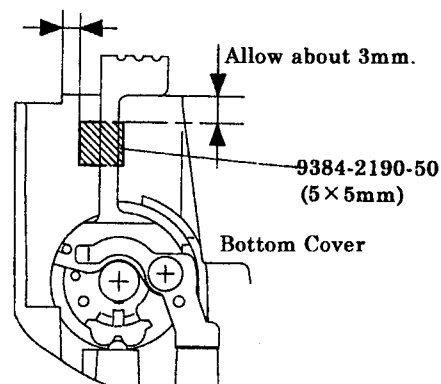
■ Fig. 4

- Assemble these parts so that contacts of 0148 is above the projection (or index) of the AF Mode Dial.

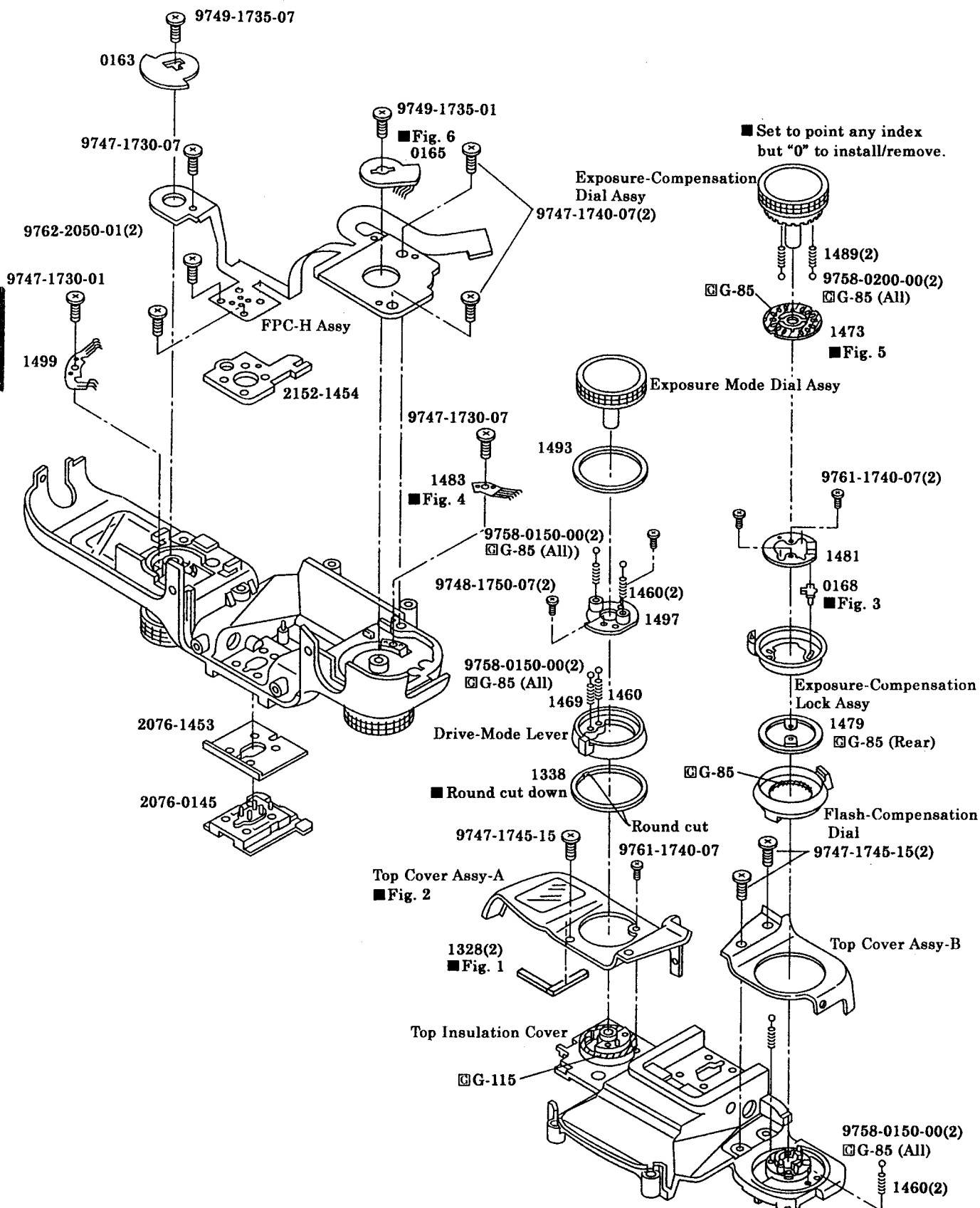


■ Fig. 5

- Install 9384-2190-50 to shaded area to affix FPC-T. する。

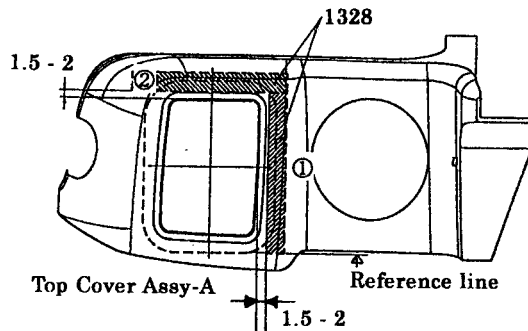


Top Cover Assembly-I



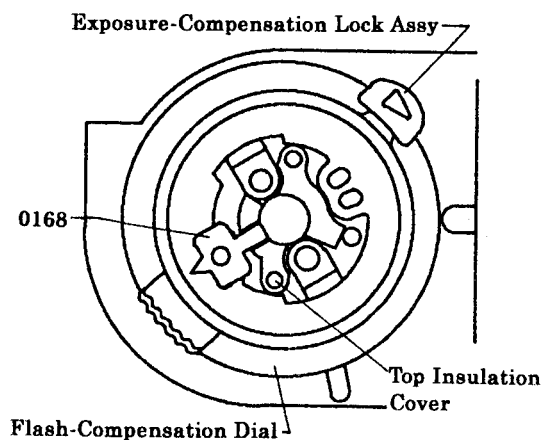
■ Fig. 1

- Install 1328 in the order of ① and ②.



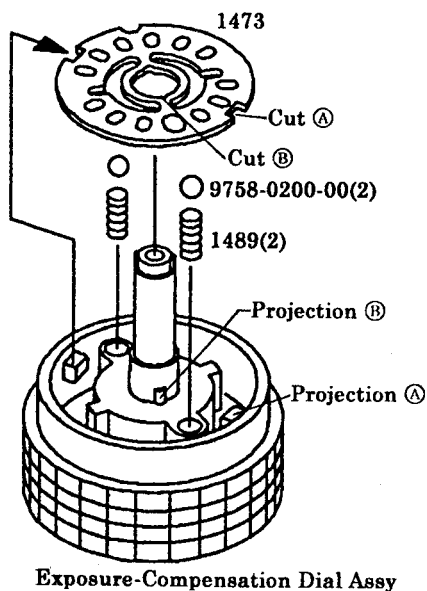
■ Fig. 3

- Install 0168 in position.



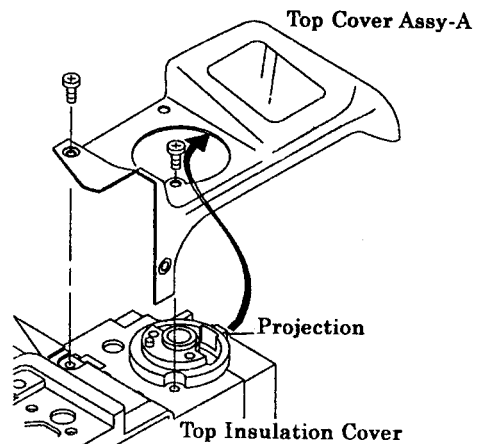
■ Fig. 5

- Install 1473 to Exposure-Compensation Dial Assy aligning ① and ②.
Then turn 1473 for 2 or 3 clicks in either direction.



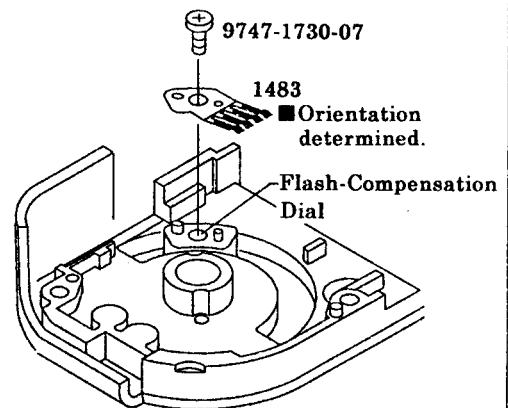
■ Fig. 2

- Install Top Cover Assy-A so that it is beneath projection of Top Insulation Cover.



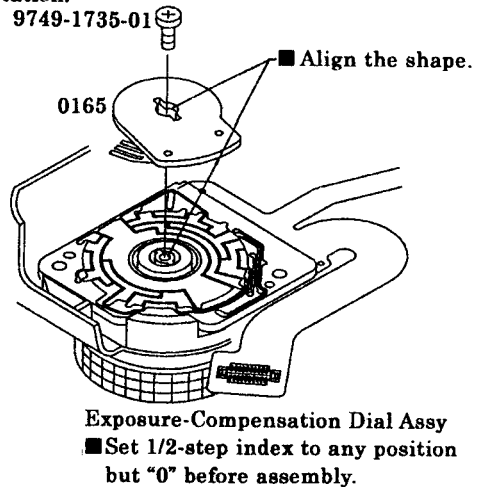
■ Fig. 4

- Install 1483 to Flash-Compensation Dial in the designated orientation.

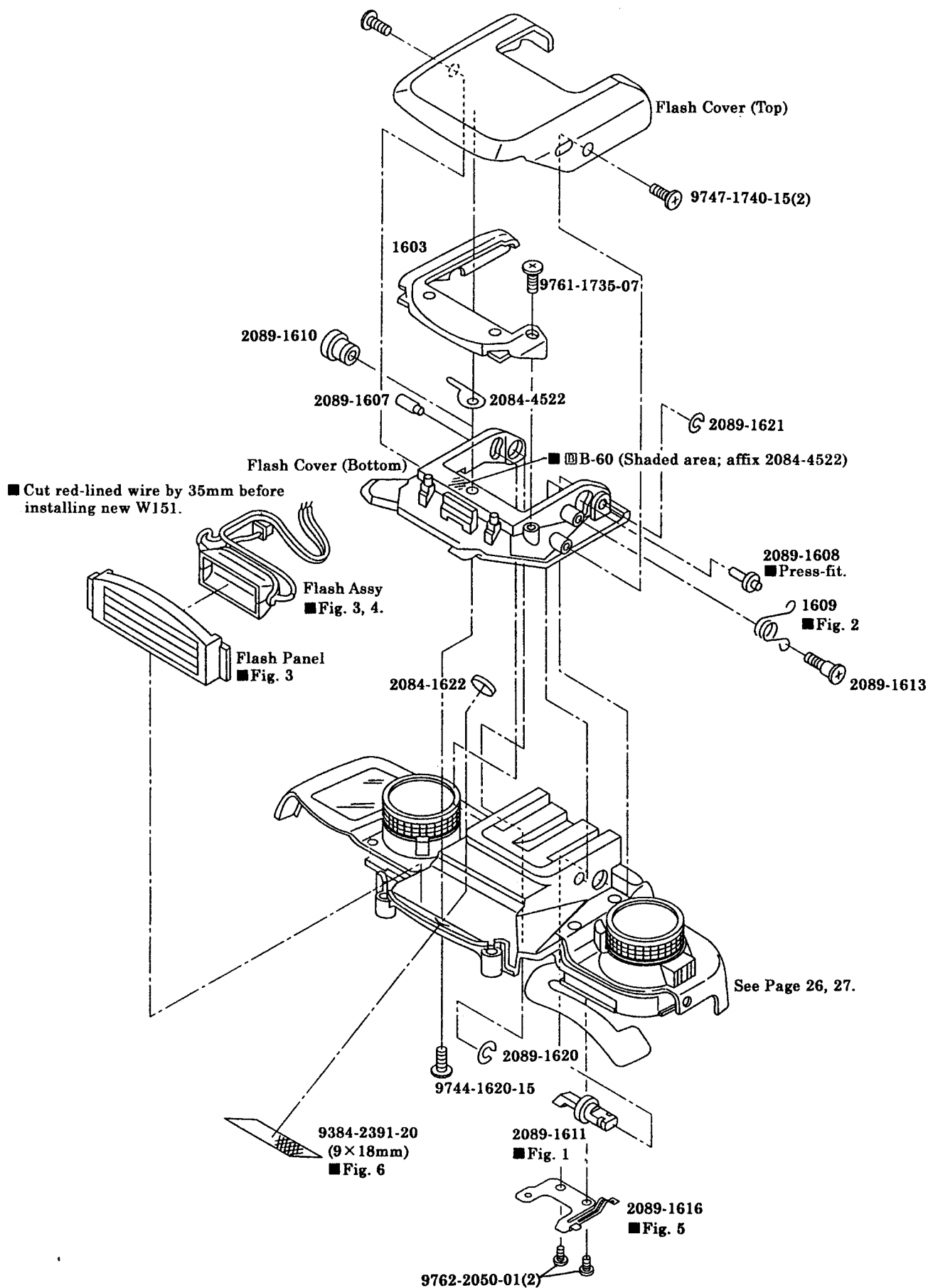


■ Fig. 6

- Set Exposure-Compensation Dial Assy in position as in figure, then install 0165 in the designated orientation.

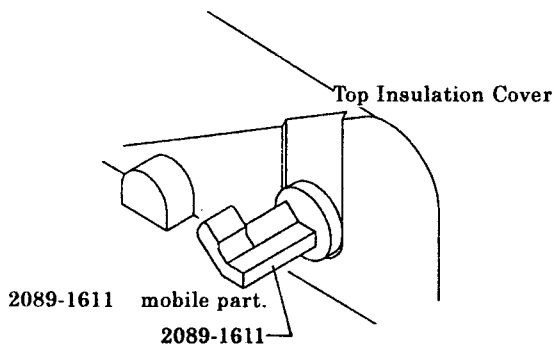


■ Top Cover Assy Assembly-II



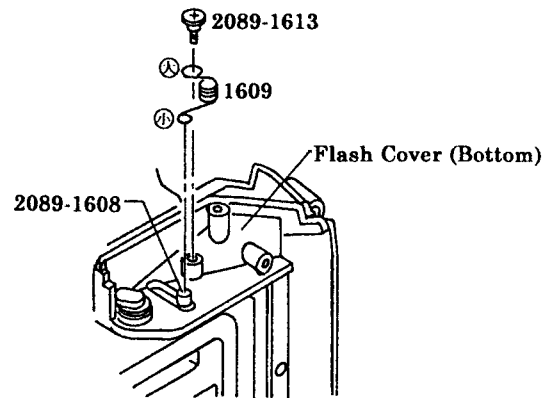
■ Fig. 1

- Install 2089-1611 so that mobile part of 2089-1616 is in position as shown.



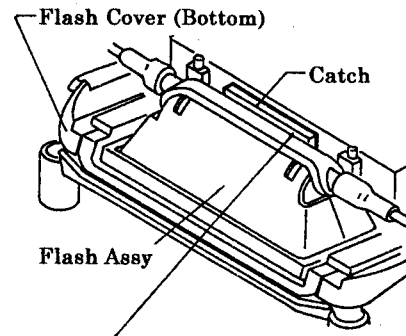
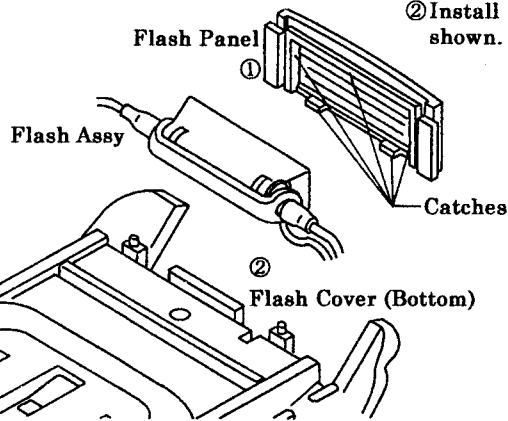
■ Fig. 2

- Hook 1609 as shown.



■ Fig. 3

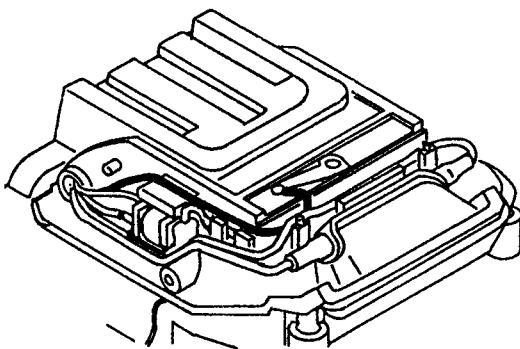
- ① Fit Flash Assy to Flash Panel's catches.
- ② Install Flash Assy and Flash Panel to Flash Cover (Bottom) as shown.



■ No clearance allowed between catches and Flash Assy.

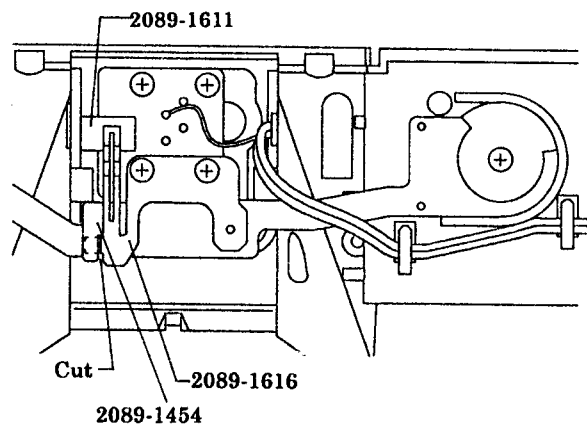
■ Fig. 4

- Arrange wires as shown.



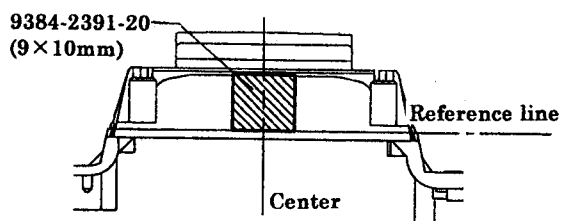
■ Fig. 5

- ① Insert 2089-1616 to cut of 2089-1454.
- ② Arrange wires as shown.

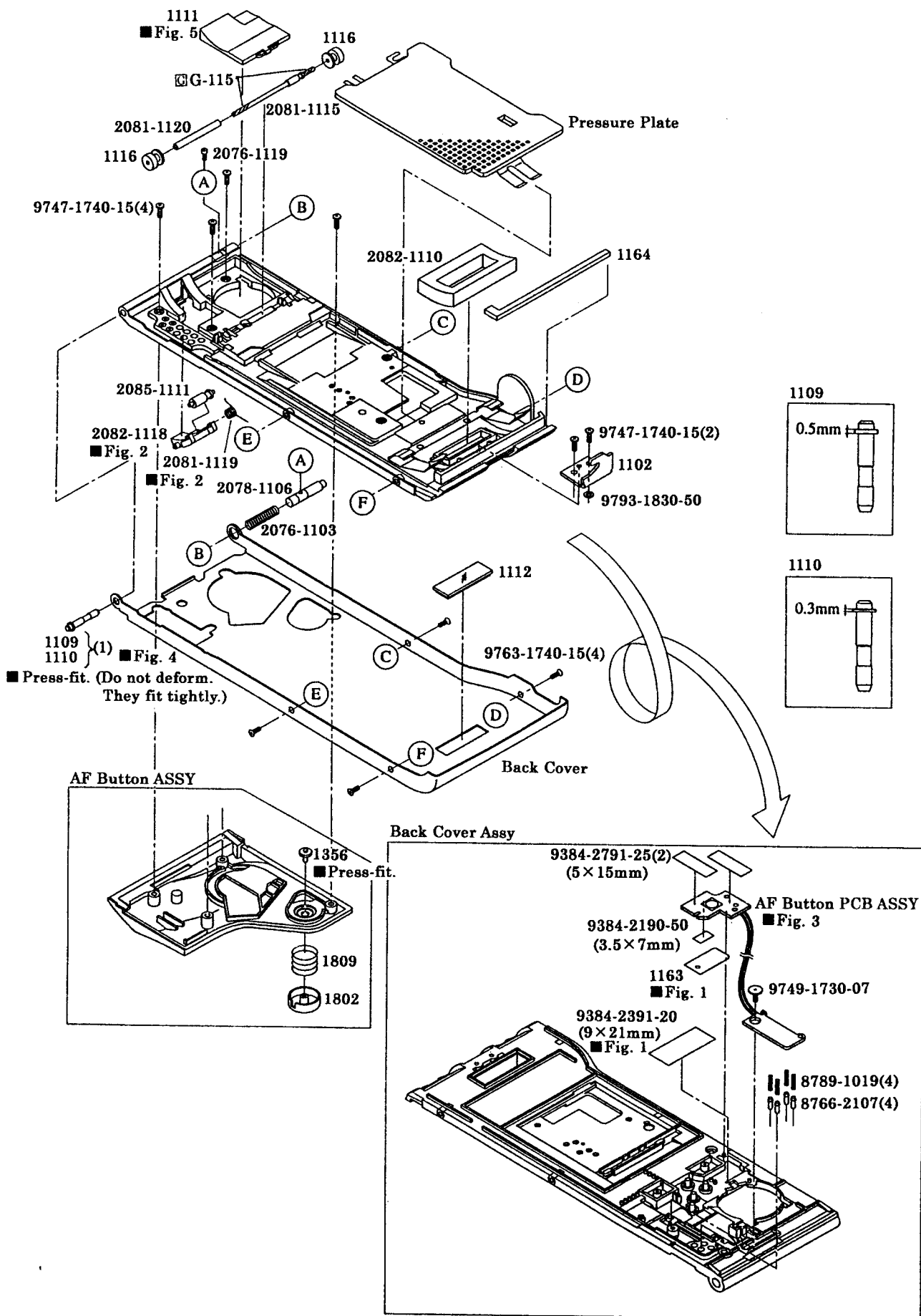


■ Fig. 6

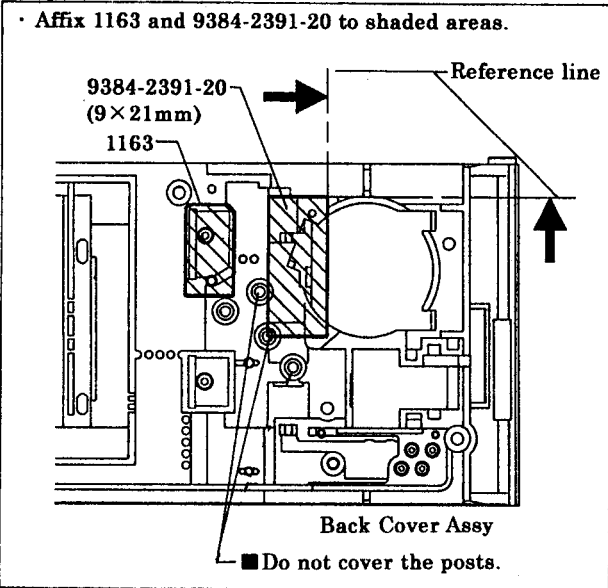
- Affix 9384-2391-20 in position.



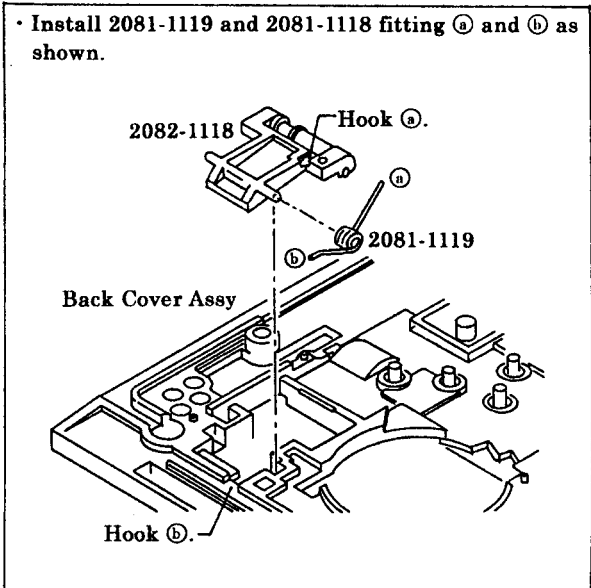
■ Back Cover Assembly



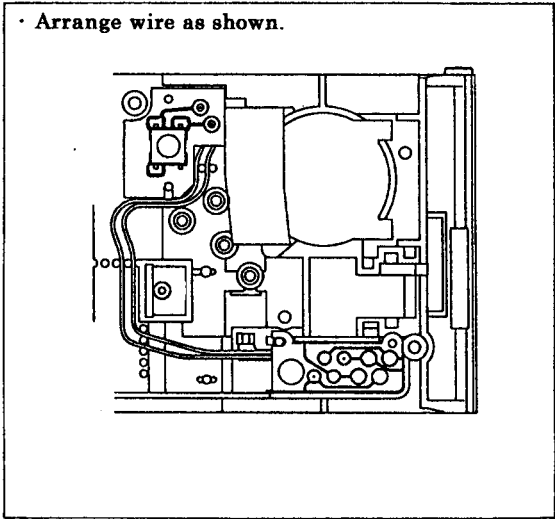
■ Fig. 1



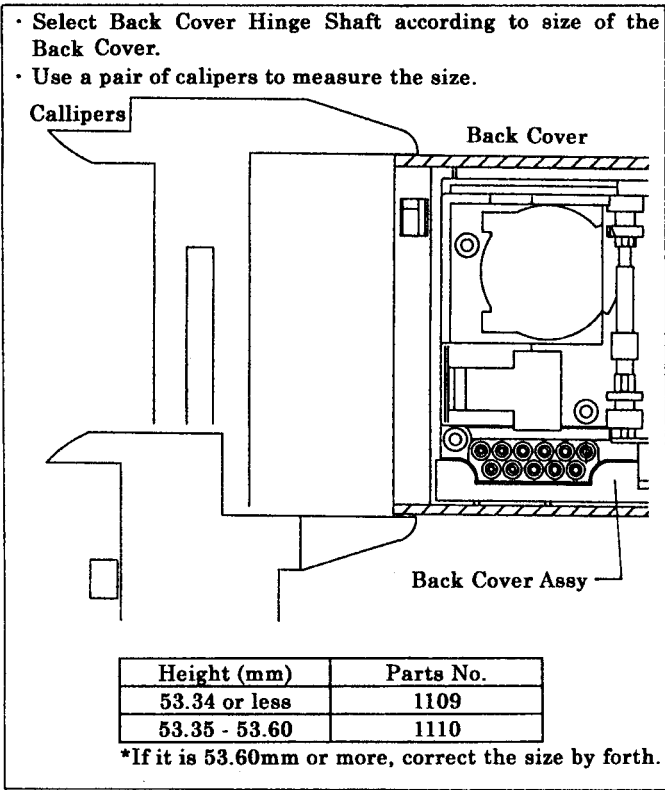
■ Fig. 2



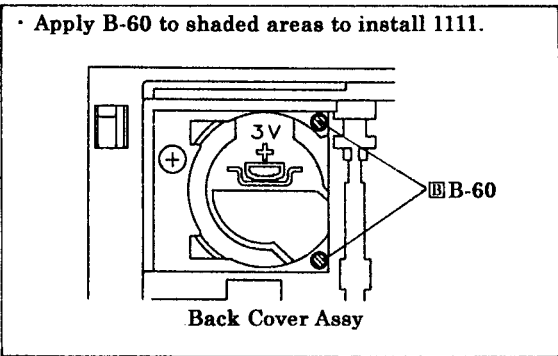
■ Fig. 3



■ Fig. 4



■ Fig. 5



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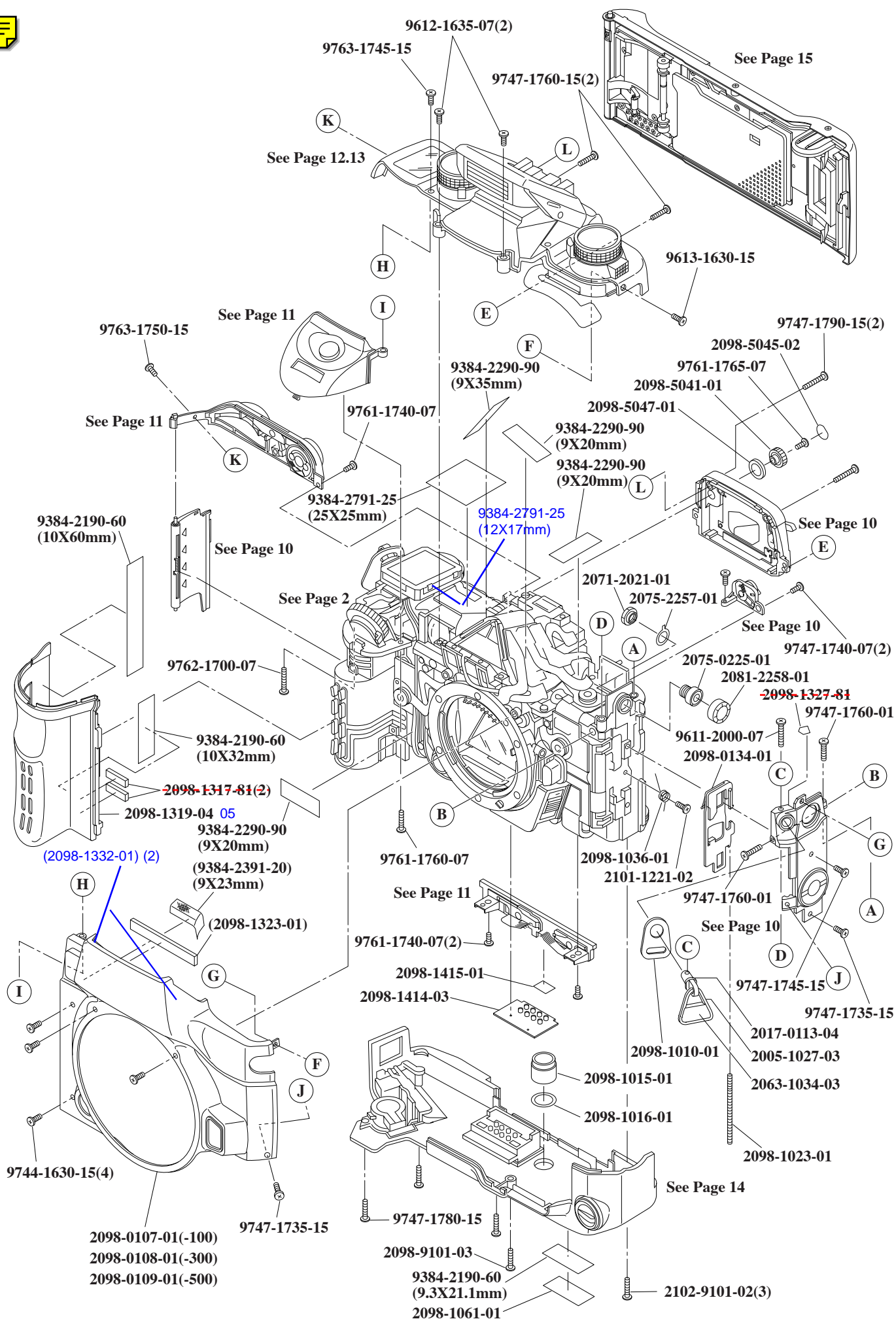
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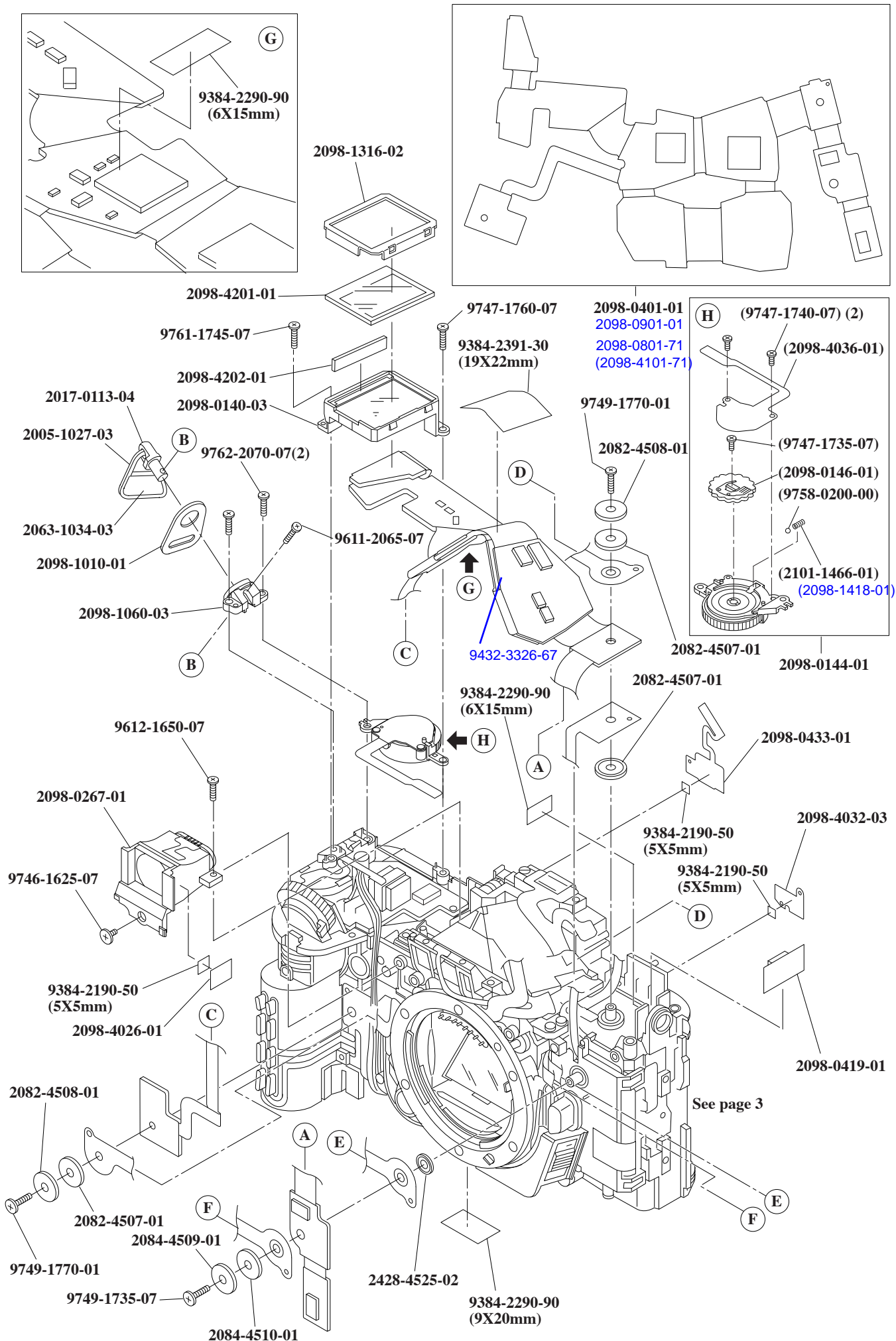
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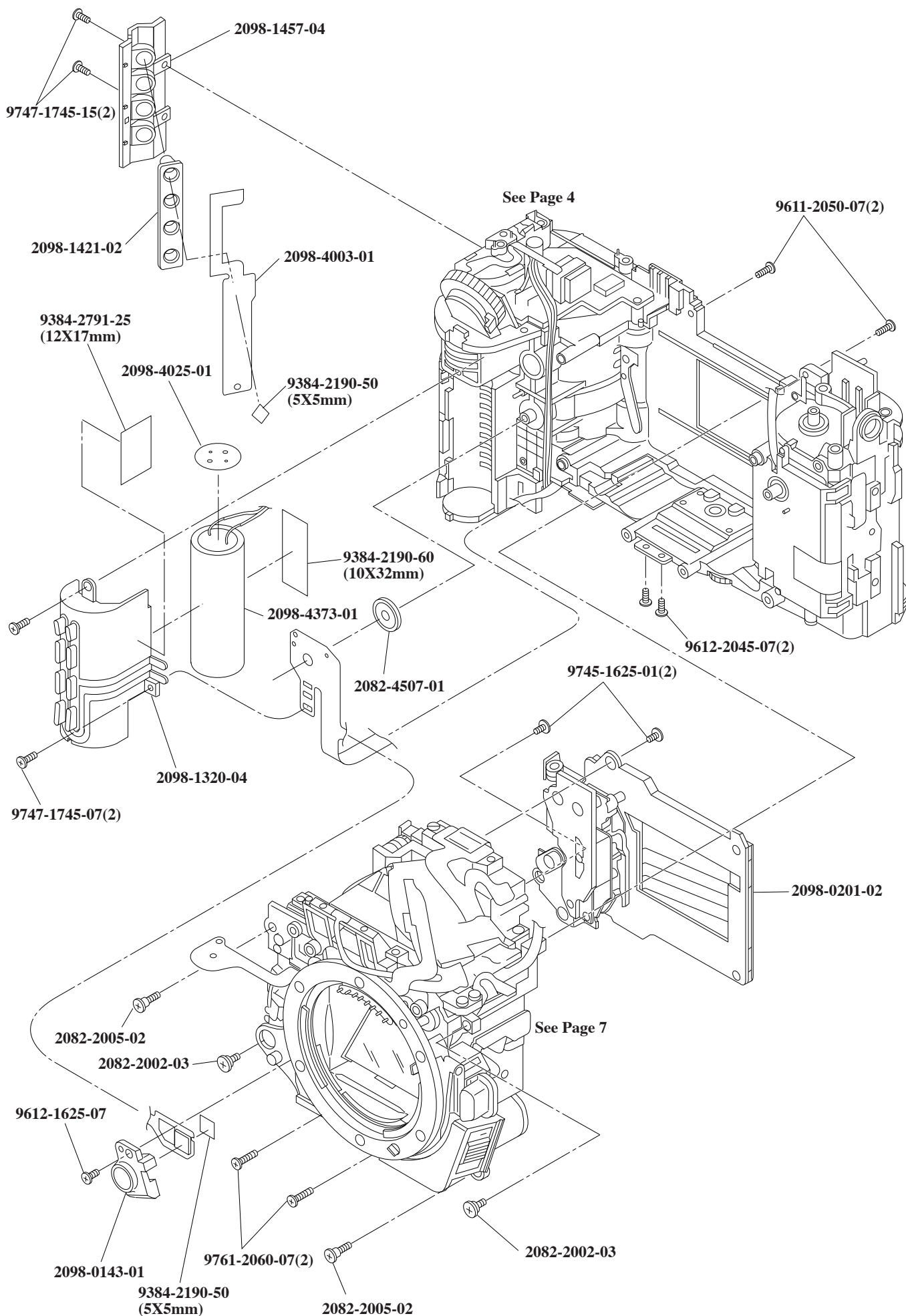


PART NO.	PART NAME		QTY.
2098-0107-01	FRONT COVER ASSY (-100)	前カバーセット (- 1 0 0)	} 1
2098-0108-01	FRONT COVER ASSY (-300)	前カバーセット (- 3 0 0)	
2098-0109-01	FRONT COVER ASSY (-500)	前カバーセット (- 5 0 0)	
(2098-1323-01)	VIEWFINDER LIGHT SHIELD SHEET	F 遮光シート	1
(2098-1332-01)	TOP COVER DUSTPROOF SHEET	上カバー防塵シート	2
(9384-2391-20)	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
2017-0113-04	STRAP HANGER SET	吊環セット	1
2098-0134-01	BACK-COVER RELEASE LOCK ASSY	裏蓋開閉板セット	1
2075-0225-01	SYNCRO TERMINAL UNIT	シンクロターミナルユニット	1
2098-1010-01	STRAP EYELET PROTECTOR	三角環プロテクター	1
2098-1015-01	TRIPOD SCREW COLLAR	三脚ねじカラー	1
2098-1016-01	TRIPOD SCREW SHEET	三脚ねじシート	1
2098-1023-01	LOOK SP	裏蓋ロック S P	1
2005-1027-03	STRAP EYELET	三角吊環	1
2063-1034-03	TRIANGLE HANGER STOPPER	三角環回り止め	1
2098-1036-01	BACK-COVER RELEASE SP	裏蓋つまみ戻し S P	1
2098-1061-01	SERIAL NUMBER PLATE	ボディ N o . 銘板	1
2101-1221-02	SCREW	ねじ	1
2098-1317-81	GRIP SW. PRESSURE RUBBER	タッチ S W 押えゴム	2
*2098-1319-04	GRIP RUBBER	グリップゴム	1
2098-1319-05	GRIP RUBBER	グリップゴム	1
2098-1327-81	SHEET	シート	1
2098-1414-03	VC-GRIP INSULATION RUBBER	縦位置グリップ絶縁ゴム	1
2098-1415-01	SHEET	シート	1
2071-2021-01	SYNC. TERMINAL NUT	シンクロターミナル止めナット	1
2075-2257-01	SYNC. TERMINAL	シンクロターミナル板	1
2081-2258-01	SYNCRO TERMINAL CAP	シンクロターミナルキャップ	1
2098-5041-01	DIOPTER-ADJUSTMENT DIAL	視度調ダイヤル	1
2098-5045-02	DIOPTER-ADJUST SHEET	視度調銘板	1
2098-5047-01	DIOPTER-ADJUST DUSTPROOF SHEET	視度調防塵シート	1
2098-9101-03	SCREW	ねじ	1
2102-9101-02	SCREW	ねじ	3
9384-2190-60	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	3
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	4
*9384-2791-25	FILM TAPE (PER ROLL BROWN)	フィルムテープB	1 2
9611-2000-07	SCREW	十字穴付なべ小ねじ	1
9612-1635-07	SCREW	ねじ	2
9613-1630-15	SCREW	ねじ	1
9744-1630-15	SCREW	ねじ	4
9747-1735-15	SCREW	ねじ	2
9747-1740-07	SCREW	ねじ	2
9747-1745-15	SCREW	ねじ	1
9747-1760-01	SCREW	ねじ	2
9747-1760-15	SCREW	ねじ	2
9747-1780-15	SCREW	ねじ	1
9747-1790-15	SCREW	ねじ	2
9761-1740-07	SCREW	ねじ	3
9761-1760-07	SCREW	ねじ	1
9761-1765-07	SCREW	ねじ	1
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9763-1745-15	SCREW	ねじ	1
9763-1750-15	SCREW	ねじ	1

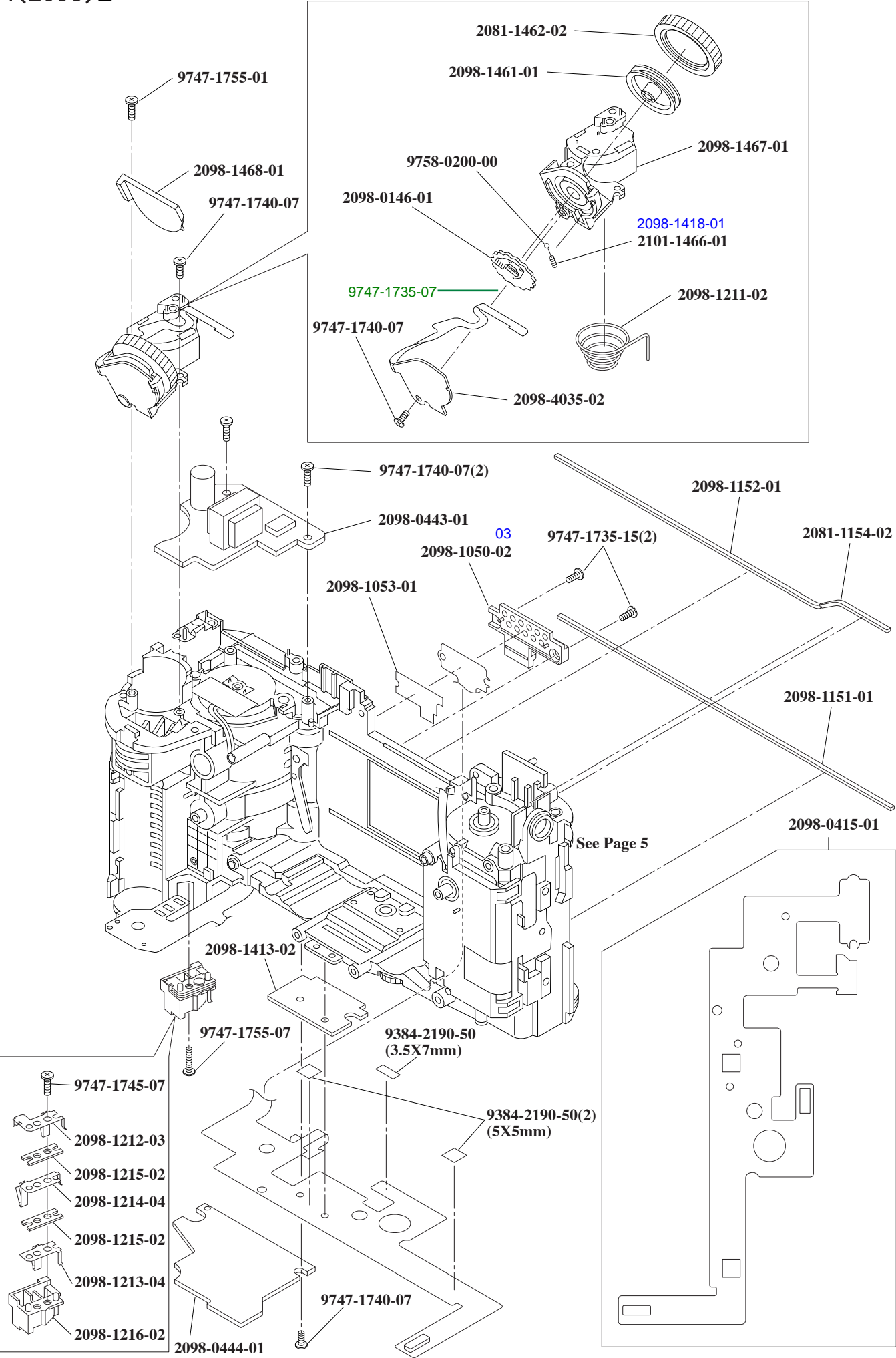


PART NO.	PART NAME		QTY.
2017-0113-04	STRAP HANGER SET	吊環セット	1
2098-0140-03	LCD1 BASE ASSY	LCD1台板セット	1
2098-0144-01	REAR DIAL ASSY	後ダイヤルセット	1
(2098-0146-01)	DIAL CONTACT ASSY	ダイヤル接片セット	1
(2098-1418-01)	DIAL SP	ダイヤルSP	1
*(2101-1466-01)	DIAL SP	ダイヤルSP	1
(2098-4036-01)	REAR DIAL FPC	後ダイヤルフレキ	1
(9747-1735-07)	SCREW	ねじ	1
(9747-1740-07)	SCREW	ねじ	2
(9758-0200-00)	STEEL BALL	スチールボール	1
2098-0267-01	AF-ILLUMINATOR ASSY	補助光セット	1
2098-0401-01	FPC-A ASSY	Aフレキセット	1
2098-0419-01	FPC-S ASSY	Sフレキセット	1
2098-0433-01	PCB-W ASSY	W基板セット	1
2098-0901-01	FPC-A ASSY	Aフレキセット	1
2098-1010-01	STRAP EYELET PROTECTOR	三角環プロテクター	1
2005-1027-03	STRAP EYELET	三角吊環	1
2063-1034-03	TRIANGLE HANGER STOPPER	三角環回り止め	1
2098-1060-03	STRAP EYELET BASE	吊環押え板	1
2098-1316-02	LCD1 PRESSURE	LCD1押え	1
2098-4026-01	JUMPER FPC-2	ジャンプフレキ-2	1
2098-4032-03	FPC-V	Vフレキ	1
2098-4201-01	LCD1	LCD1	1
2098-4202-01	LCD1 RUBBER CONNECTOR	LCD1ゴムコネクタ	1
2082-4507-01	A-C-K RUBBER CONNECTOR	A-C-Kコネクターゴム	3
2082-4508-01	A-C-K CONNECTOR PRESSURE	A-C-Kコネクター押え板	2
2084-4509-01	RUBBER CONNECTOR	コネクターゴム	1
2084-4510-01	CONNECTOR PRESSURE	コネクター押え板	1
2428-4525-02	FPC RUBBER	FPC圧接ゴム	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	3
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	3
9384-2391-30	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
9611-2065-07	SCREW	ねじ	1
9612-1650-07	SCREW	ねじ	1
9746-1625-07	SCREW	ねじ	1
9747-1760-07	SCREW	ねじ	1
9749-1735-07	SCREW	ねじ	1
9749-1770-01	SCREW	ねじ	2
9761-1745-07	SCREW	ねじ	1
9762-2070-07	SCREW	ねじ	2

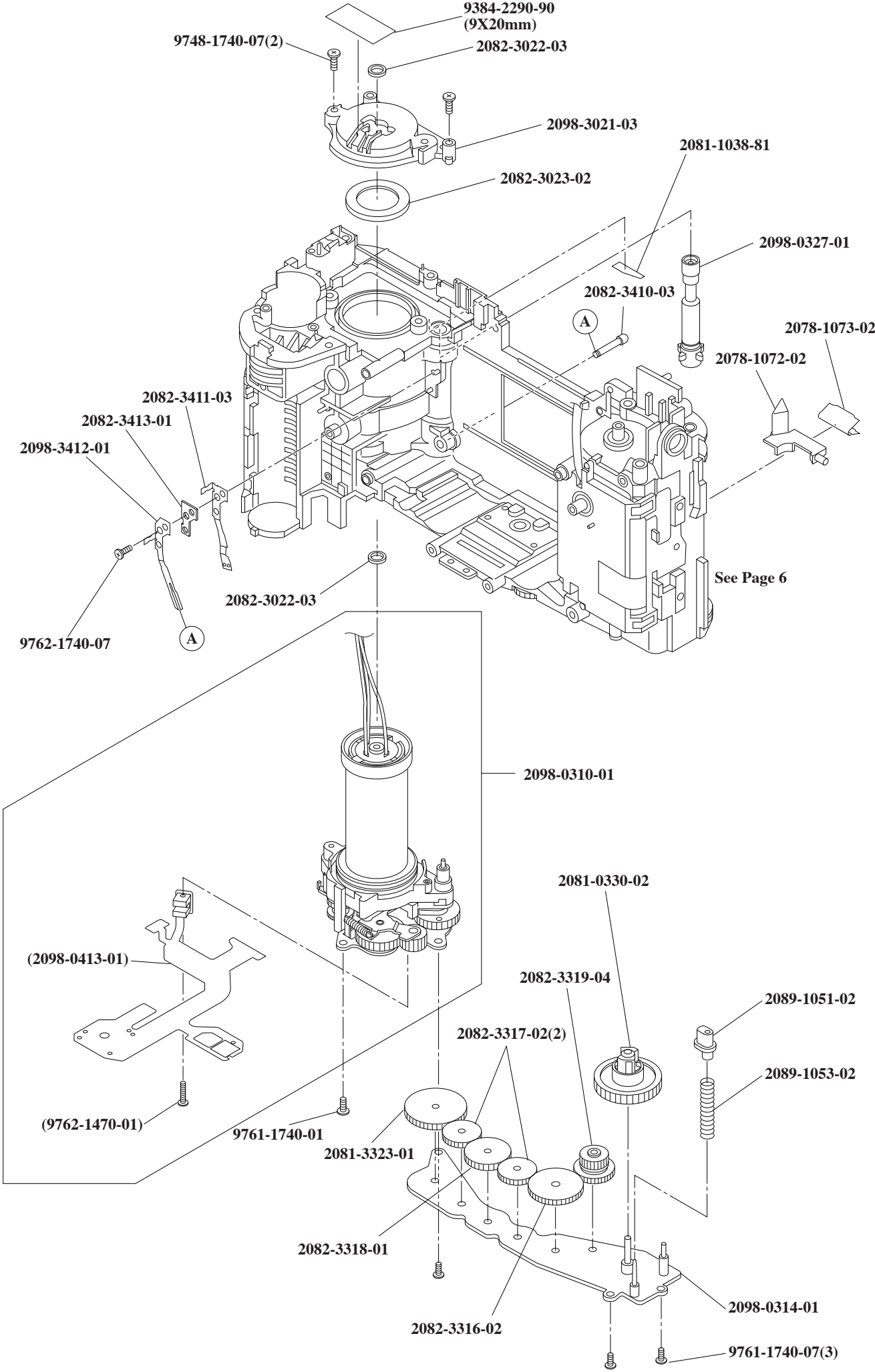
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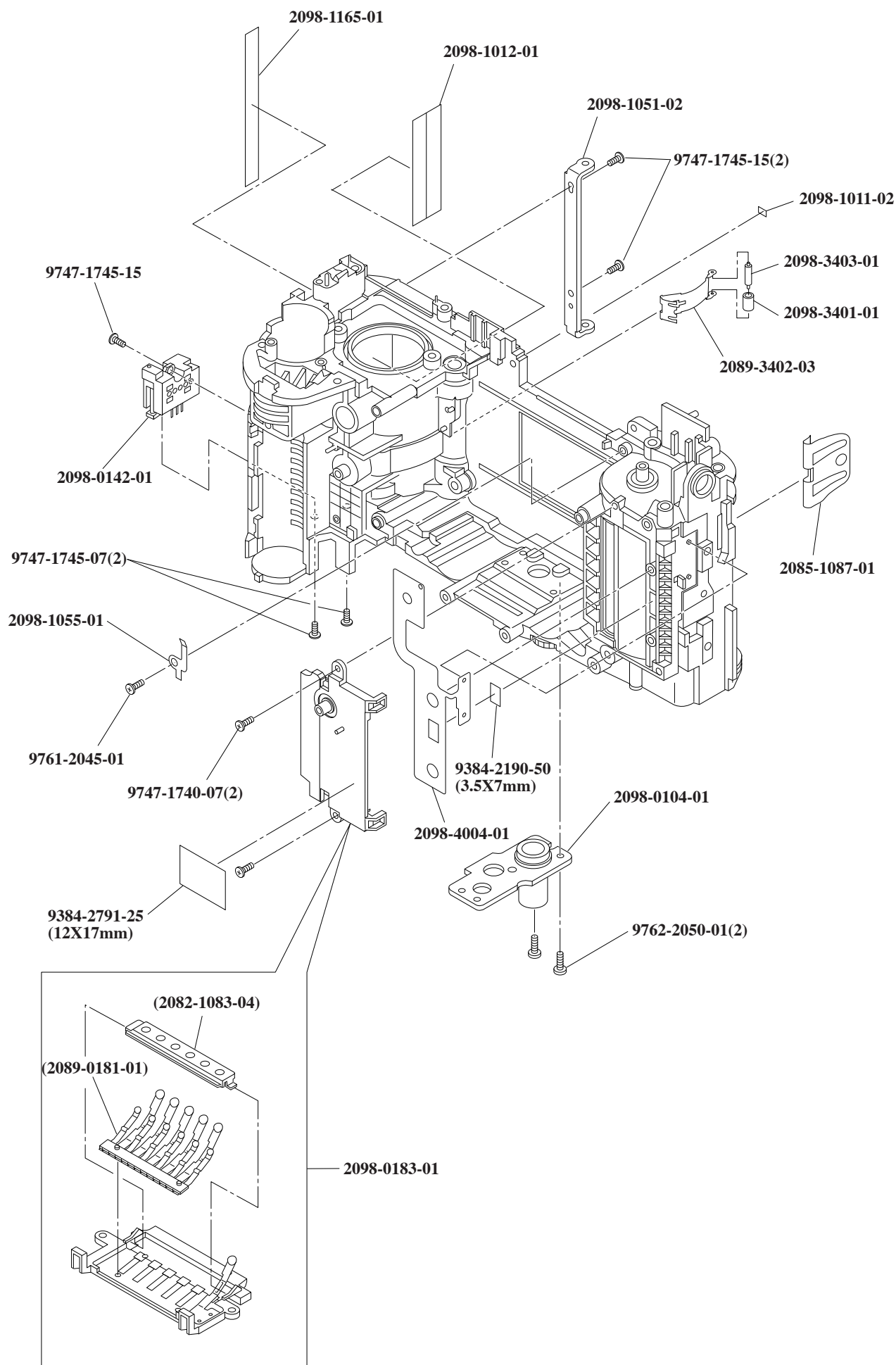
PART NO.	PART NAME		QTY.
2098-0143-01	PREVIEW BUTTON ASSY	PV釦セット	1
2098-0201-02	SHUTTER ASSY	シャッターユニット	1
2098-1320-04	MAIN CONDENSER HOLDER	メインコンデンサーホルダー	1
2098-1421-02	CONTROL-PANEL DOOR BUTTONS	ウイングカバー内釦	1
2098-1457-04	CONTROL-PANEL BUTTON COVER	釦ホルダー	1
2082-2002-03	SCREW	ねじ	2
2082-2005-02	SCREW	ねじ	2
2098-4003-01	FPC-C	Cフレキ	1
2098-4025-01	JUMPER FPC-1	ジャンプフレキ-1	1
2098-4373-01	MAIN CONDENSER (C157)	メインコンデンサ (C157)	1
2082-4507-01	A-C-K RUBBER CONNECTOR	A-C-Kコネクターゴム	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	2
9384-2190-60	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9384-2791-25	FILM TAPE (PER ROLL BROWN)	フィルムテープB	1
9611-2050-07	SCREW	十字穴付なべ小ねじ	2
9612-1625-07	SCREW	ねじ	1
9612-2045-07	SCREW	ねじ	2
9745-1625-01	SCREW	ねじ	2
9747-1745-07	SCREW	ねじ	2
9747-1745-15	SCREW	ねじ	2
9761-2060-07	SCREW	ねじ	2



PART NO.	PART NAME		QTY.
2098-0146-01	DIAL CONTACT ASSY	ダイヤル接片セット	1
2098-0415-01	FPC-O ASSY	Oフレキセット	1
2098-0443-01	FLASH PCB ASSY	フラッシュ基板セット	1
2098-0444-01	DC/DC CONVERTER PCB ASSY	DC／DCコンバーター基板セット	1
*2098-1050-02	SIGNAL PIN CONTACT HOLDER	裏蓋信号押え板	1
2098-1050-03	SIGNAL PIN CONTACT HOLDER	裏蓋信号押え板	1
2098-1053-01	SHEET	シート	1
2098-1151-01	SOUND PROOF SPONGE-A	防音片A	1
2098-1152-01	SOUND PROOF SPONGE-B	防音片B	1
2081-1154-02	SOUND-PROOF PLATE-D	防音片D	1
2098-1211-02	BATTERY CONTACT (-) A	電池接片(-)A	1
2098-1212-03	BATTERY CONTACT (-) B	電池接片(-)B	1
2098-1213-04	BATTERY CONTACT (+) B	電池接片(+)B	1
2098-1214-04	BATTERY DETECT SW	電池検知SW	1
2098-1215-02	BATTERY DETECT SW SPACER	電池検知SW間隔板	2
2098-1216-02	BATTERY CONTACT HOLDER	電池接片ホルダー	1
2098-1413-02	VC-GRIP SIGNAL PIN SHEET	縦位置グリップ信号ピンシート	1
2098-1418-01	DIAL SP	ダイヤルSP	1
2098-1461-01	FRONT DIAL ROLLER PLATE	前ダイヤル回転板	1
2081-1462-02	DIAL RUBBER	ダイアルゴム	1
*2101-1466-01	DIAL SP	ダイヤルSP	1
2098-1467-01	FRONT DIAL /BATTERY HOLDER	前ダイヤル／電池ホルダー	1
2098-1468-01	FRONT DIAL DUSTPROOF PLATE	前ダイヤル防塵板	1
2098-4035-02	FRONT DIAL FPC	前ダイヤルフレキ	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	3
9749-1735-07	SCREW	ねじ	1
9747-1735-15	SCREW	ねじ	2
9747-1740-07	SCREW	ねじ	5
9747-1745-07	SCREW	ねじ	1
9747-1755-01	SCREW	ねじ	1
9747-1755-07	SCREW	ねじ	1
9758-0200-00	STEEL BALL	スチールボール	1

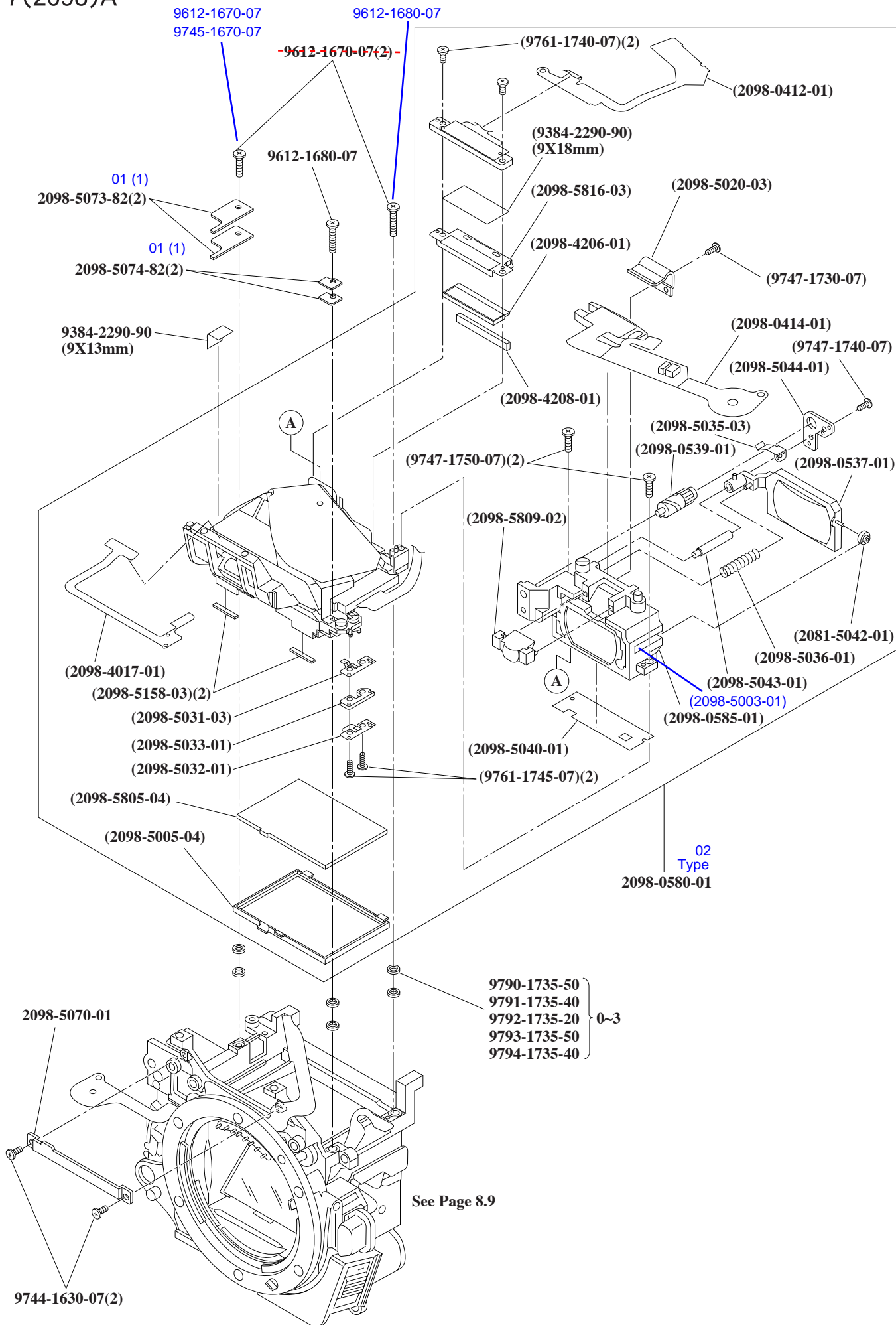


PART NO.	PART NAME		QTY.
2098-0310-01	WINDING BASEPLATE ASSY	巻上げ台板セット	1
(2098-0413-01)	FPC-M ASSY	Mフレキセット	1
(9762-1470-01)	SCREW	ねじ	1
2098-0314-01	REWIND BASEPLATE ASSY	巻戻し台板セット	1
2098-0327-01	SPROCKET ASSY	スプロケットセット	1
2081-0330-02	REWIND FORK GEAR SET	巻戻しフォークセット	1
2081-1038-81	SPROCKET PRESSURE PLATE	スプロケット押え板	1
2089-1051-02	FILM PUSH UP LEVER	パト押上レバー	1
2089-1053-02	FILM PUSH UP SP	パト押上SP	1
2078-1072-02	FILM CARTRIDGE RECEIVER	パトロ金受け	1
2078-1073-02	CARTRIDGE RECEIVER SP	口金受回転SP	1
2098-3021-03	WINDING MOTOR HOLDER	モータ保持台	1
2082-3022-03	MOTOR RUBBER HOLDER	モーター保持ゴム	2
2082-3023-02	SPOOL AXIS RECEIVER	スプール軸受け	1
2082-3316-02	REWIND GEAR-B	巻戻しギアB	1
2082-3317-02	REWIND GEAR-C	巻戻しギアC	2
2082-3318-01	REWIND GEAR-D	巻戻しギアD	1
2082-3319-04	REWIND GEAR-F	巻戻しギアF	1
2081-3323-01	REWIND GEAR-G	巻戻しギアG	1
2082-3410-03	FILM DETECT PIN	フィルム検知ピン	1
2082-3411-03	FILM DETECT CONTACT-A	フィルム検知接片A	1
2098-3412-01	FILM DETECT CONTACT (GND)	フィルム検知接片(GND)	1
2082-3413-01	FILM DETECT CONTACT SPACER	フィルム検知接片スペーサー	1
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	1
9748-1740-07	SCREW	ねじ	2
9761-1740-07	SCREW	ねじ	4
9762-1740-07	SCREW	ねじ	1



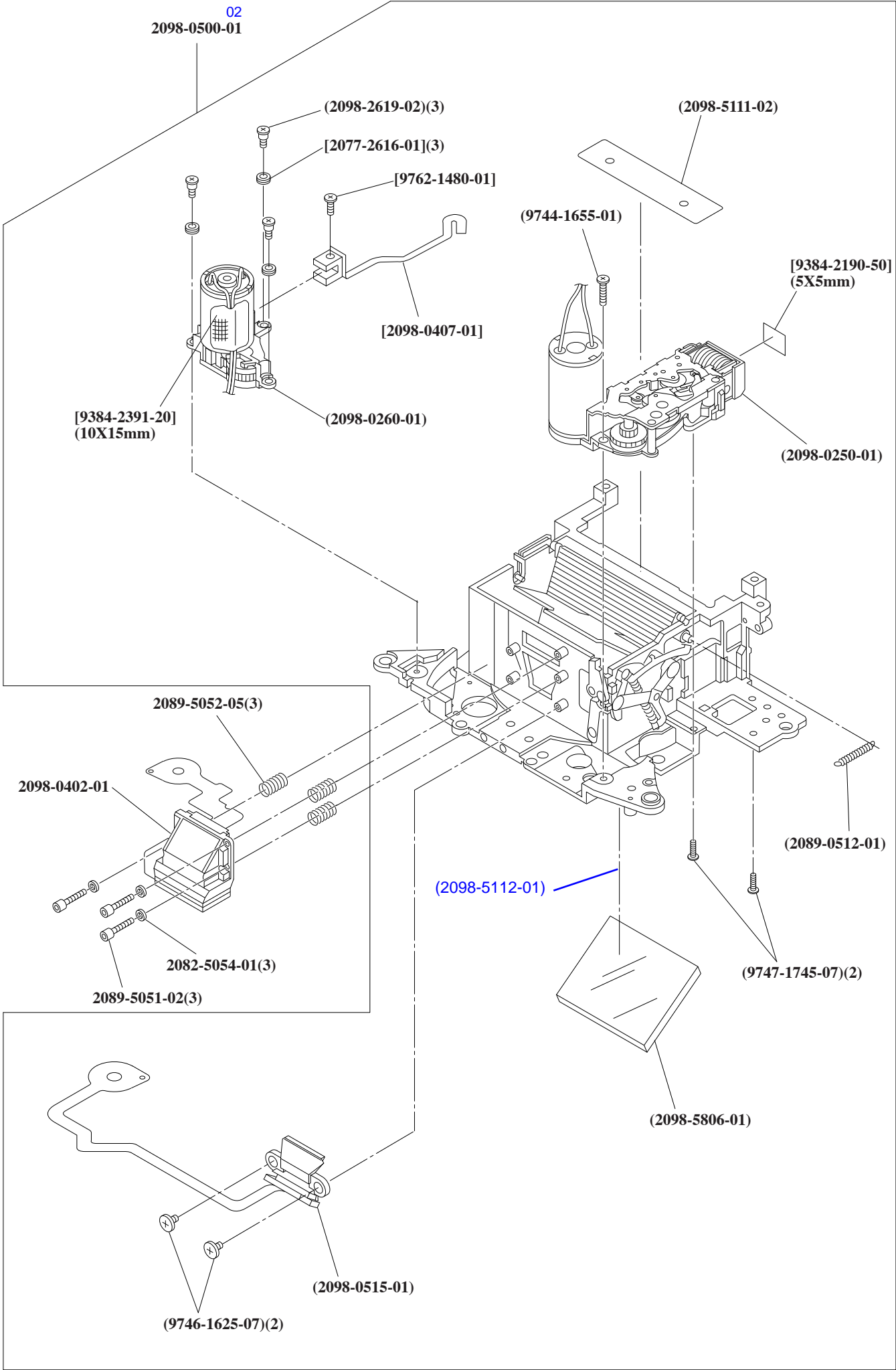
PART NO.	PART NAME		QTY.
2098-0104-01	TRIPOD BASE ASSY	三脚台板セット	1
2098-0142-01	REMOTE-CONTROL TERMINAL ASSY	リモートホルダーセット	1
2098-0183-01	DX-CONTACT HOLDER ASSY	CAS接片ホルダーセット	1
(2089-0181-01)	DX CONTACT	CAS接片	1
(2082-1083-04)	DX CONTACT HOLDER	CAS接片ホルダー	1
2098-1011-02	FILM LEADER INDEX	ローディング指標	1
2098-1012-01	SHEET	シート	1
2098-1051-02	BACK-COVER HINGE	裏蓋ヒンジ	1
2098-1055-01	GROUND PLATE	ラグ板	1
2085-1087-01	SIDE SP	サイドSP	1
2098-1165-01	BACK-COVER DUSTPROOF SHEET-B	裏蓋防塵シートB	1
2098-3401-01	FILM ROLLER	フィルム押えローラー	1
2089-3402-03	ROLLER HOLDER	ローラーホルダー	1
2098-3403-01	FILM ROLLER RUBBER	フィルム押えローラーゴム	1
2098-4004-01	FPC-D	Dフレキ	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9384-2791-25	FILM TAPE (PER ROLL BROWN)	フィルムテープB	1
9747-1740-07	SCREW	ねじ	2
9747-1745-07	SCREW	ねじ	2
9747-1745-15	SCREW	ねじ	3
9761-2045-01	SCREW	ねじ	1
9762-2050-01	SCREW	ねじ	2

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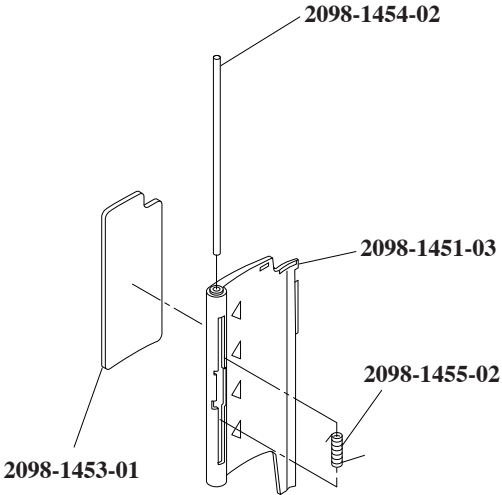
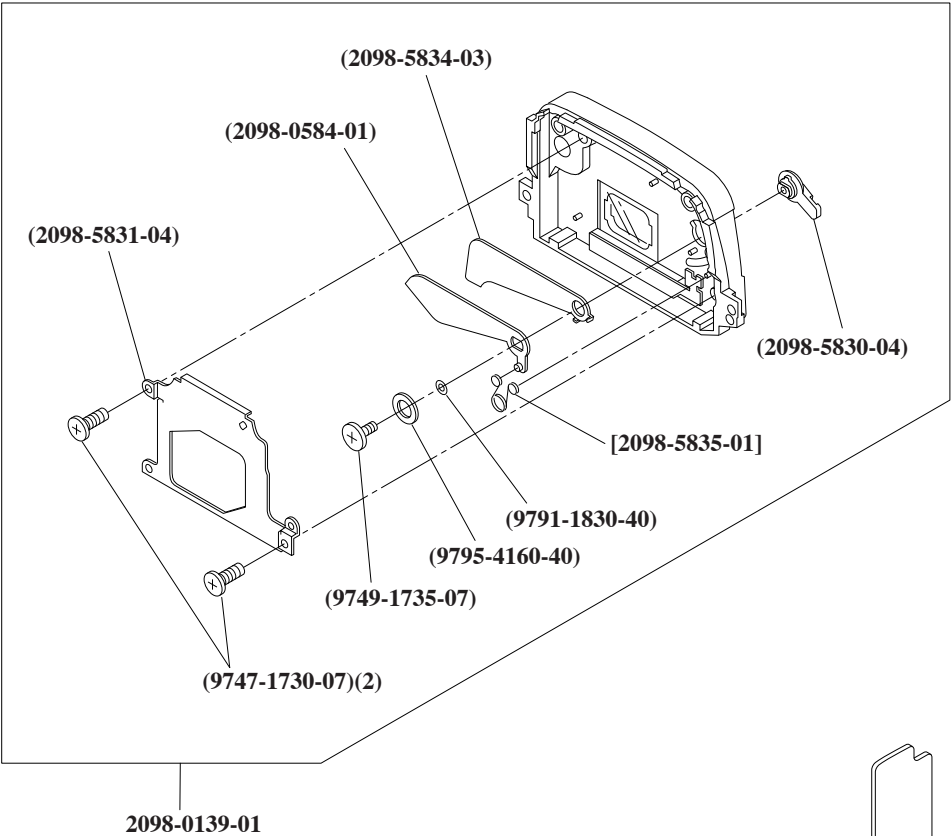
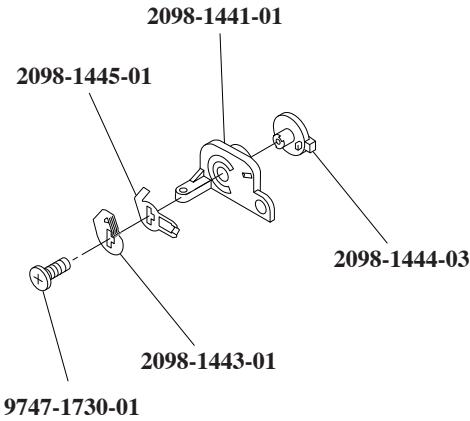
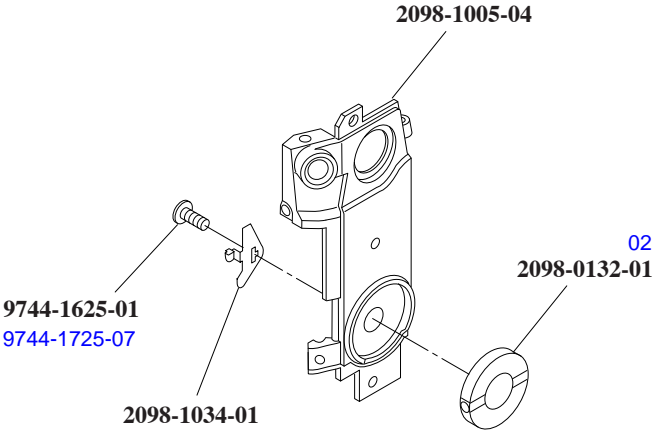


PART NO.	PART NAME		QTY.
*2098-0580-01	PENTA-PRISM ASSY	ペンタブロックセット	1
2098-0580-02	PENTA-PRISM ASSY	ペンタブロックセット	1
(2098-0412-01)	FPC-L ASSY	Lフレキシセット	1
(2098-0414-01)	FPC-N ASSY	Nフレキシセット	1
(2098-0537-01)	EYEPIECE LENS ASSY	接眼レンズセット	1
(2098-0539-01)	DIOPTER-ADJUST CAM ASSY	視度調駆動カムセット	1
(2098-0585-01)	EYEPIECE LENS HOLDER ASSY	接眼レンズホルダーセット	1
(2098-4017-01)	FPC-Q	Qフレキ	1
(2098-4206-01)	LCD2	LCD2	1
(2098-4208-01)	CONNECTOR RUBBER-A	IFゴムコネクターA	1
(2098-5003-01)	LIGHT SHIELD SHEET-A	接眼レンズホルダー遮光シートA	1
(2098-5005-04)	FOCUSING SCREEN HOLDER	焦点板ホルダー	1
(2098-5020-03)	SPC1 HOLDER	SPC1押え	1
(2098-5031-03)	FOCUSING SCREEN DETECT CONTACT-A	焦点板検知接片A	1
(2098-5032-01)	FOCUSING SCREEN DETECT CONTACT-B	焦点板検知接片B	1
(2098-5033-01)	FOCUSING SCREEN DETECT CONTACT SPACER	焦点板検知接片間隔板	1
(2098-5035-03)	DIOPTER-ADJUST CLICK	視度調クリック板	1
(2098-5036-01)	DIOPTER-ADJUST SP	視度調SP	1
(2098-5040-01)	EYEPIECE LIGHT SHIELD PLATE	接眼遮光板	1
(2081-5042-01)	DIOPTER-ADJUST SHAFT-A	視度調軸A	1
(2098-5043-01)	DIOPTER-ADJUST SHAFT-B	視度調軸B	1
(2098-5044-01)	DIOPTER-ADJUST CAM HOLDER	視度調駆動カム軸受け	1
(2098-5158-03)	MAIN MIRROR CUSHION	主ミラークッション	2
(2098-5805-04)	FOCUSING SCREEN	焦点板	1
(2098-5809-02)	SPC1 LENS	SPC1レンズ	1
(2098-5816-03)	CONNECTOR RUBBER PRESSURE-A	IFゴムコネクター押え板A	1
(9384-2290-90)	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	1
(9747-1730-07)	SCREW	ねじ	1
(9747-1740-07)	SCREW	ねじ	1
(9747-1750-07)	SCREW	ねじ	2
(9761-1740-07)	SCREW	ねじ	2
(9761-1745-07)	SCREW	ねじ	2
2098-5070-01	FOCUS AREA LED STABILIZER	投光位置固定板	1
*2098-5073-82	PENTA SUB PLATE-A	ペンタ押え補強板A	2
2098-5073-01	PENTA SUB PLATE-A	ペンタ押え補強板A	1
*2098-5074-82	PENTA SUB PLATE-B	ペンタ押え補強板B	2
2098-5074-01	PENTA SUB PLATE-B	ペンタ押え補強板B	1
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	1
*9612-1670-07	SCREW	ねじ	2 0 1
*9612-1680-07	SCREW	ねじ	1 2
9744-1630-07	SCREW	ねじ	2
9745-1670-07	SCREW	ねじ	1
9790-1735-50	WASHER	ワッシャ	} 0~3
9791-1735-40	WASHER	ワッシャ	
9792-1735-20	WASHER	ワッシャ	
9793-1735-50	WASHER	ワッシャ	
9794-1735-40	WASHER	ワッシャ	

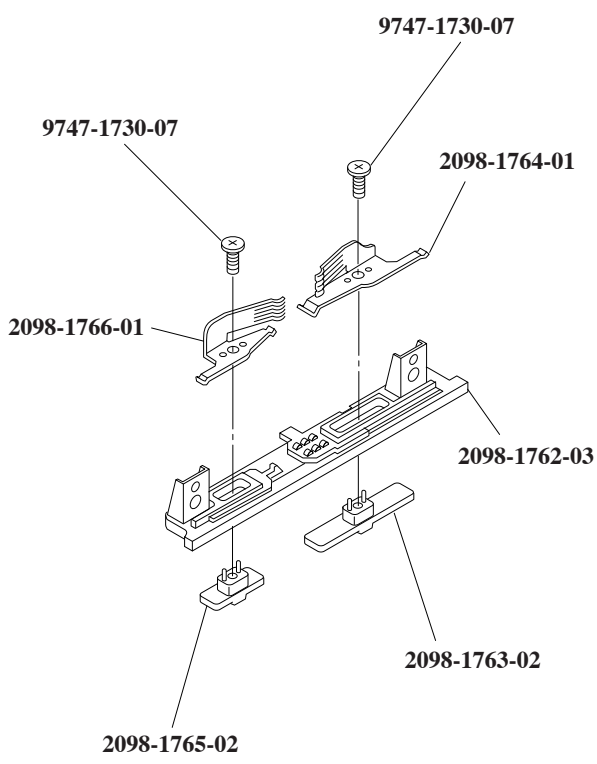
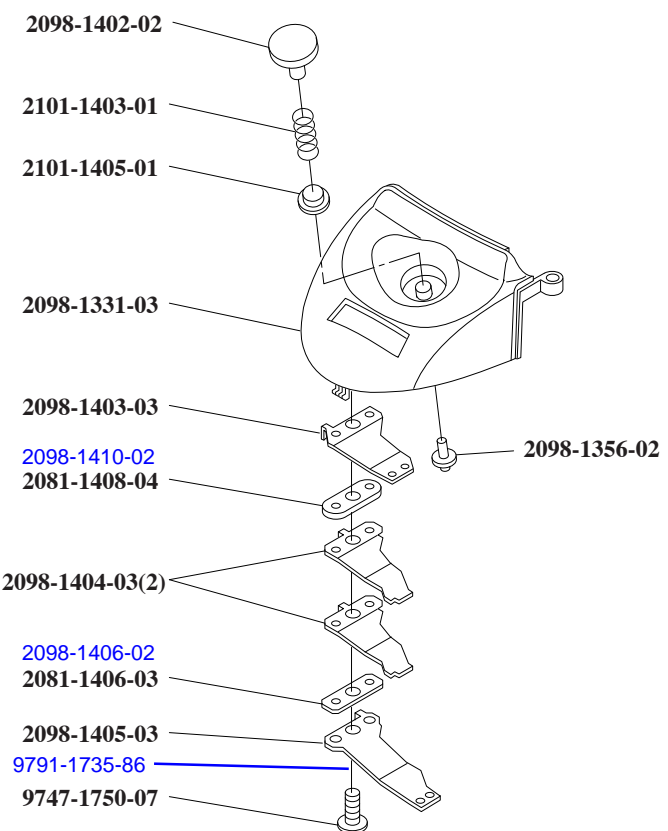
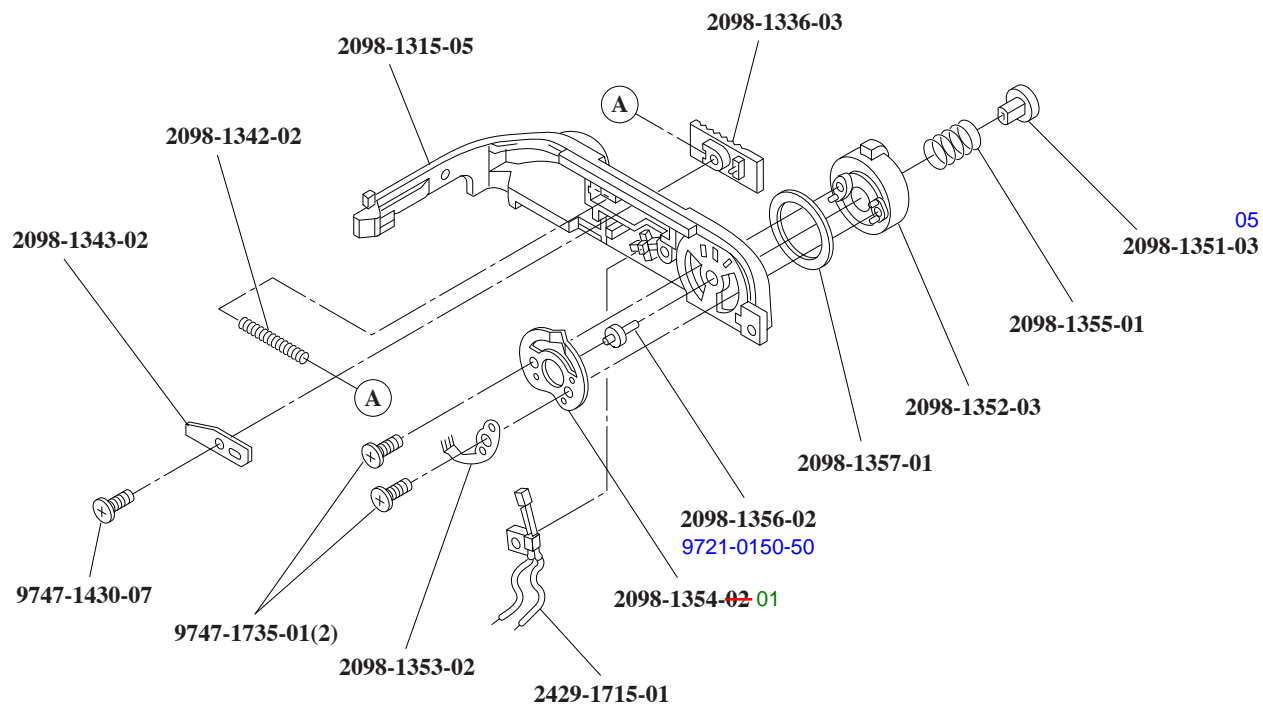
PART NO.	PART NAME		QTY.
*2098-0500-01	MIRROR BOX ASSY	ミラーボックスセット	1
2098-0500-02	MIRROR BOX ASSY	ミラーボックスセット	1
(2098-0150-01)	BL CONTACT HOLDER ASSY	BL接点ホルダーセット	1
(2078-0152-01)	COUPLER LEVER SET	カプラーレバーセット	1
(2098-0152-01)	LENS-RELEASE BASE ASSY	レンズロック台板セット	1
(2082-0156-01)	LENS LOCK LEVER SET	保持レバーセット	1
(2082-0245-01)	APERTURE RING SET	絞りリングセット	1
(2072-1010-11)	BAYONET LENS MOUNT	マウント	1
(2076-1011-01)	BAYONET SP	リングSP	1
(2085-1515-01)	LENS LOCK PIN	レンズロックピン	1
(2072-1519-01)	LENS LOCK LEVER SP	保持レバーSP	1
(2098-1519-01)	CONNECT LEVER	連動レバー	1
(2082-1520-02)	GROUND CONTACT	座板アース接片	1
(2098-1523-01)	FOCUS-MODE SWITCH CONTACT	AF/Mレバークリック接片	1
(2098-1524-02)	FOCUS-MODE SWITCH CLICK	AF/Mレバークリック板	1
(2098-1527-01)	FOCUS-MODE SWITCH COVER	AF/Mカバー	1
(2098-1528-03)	FOCUS-MODE SWITCH	AF/Mレバー	1
(2098-1545-03)	LENS RELEASE	レンズロック釦	1
(2089-1547-01)	LENS-RELEASE SP	レンズロックSP	1
(2082-2549-03)	RING ROLLER-A	リングローラーA	2
(2082-2550-02)	RING ROLLER-B	リングローラーB	1
(2082-2553-04)	RING ROLLER-C	リングローラーC	1
(2098-4031-01)	FPC-U	Uフレキ	1
(2072-9002-01)	SCREW	ねじ	1
(9384-2190-50)	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
(9611-2040-04)	SCREW	ねじ	6
(9612-1630-07)	SCREW	ねじ	1
(9612-1635-01)	SCREW	ねじ	1
(9612-1635-07)	SCREW	ねじ	3
(9744-1635-07)	SCREW	ねじ	2
(9747-1745-07)	SCREW	ねじ	1
(9761-1735-07)	SCREW	ねじ	1
2072-1010-71	BAYONET LENS MOUNT	マウント	1
2005-1061-81	ADJUSTMENT WASHER-A (T=0.02)	調整ワッシャA	} Some
2005-1062-81	ADJUSTMENT WASHER-B (T=0.05)	調整ワッシャB	
2005-1063-81	ADJUSTMENT WASHER-C (T=0.1)	調整ワッシャC	



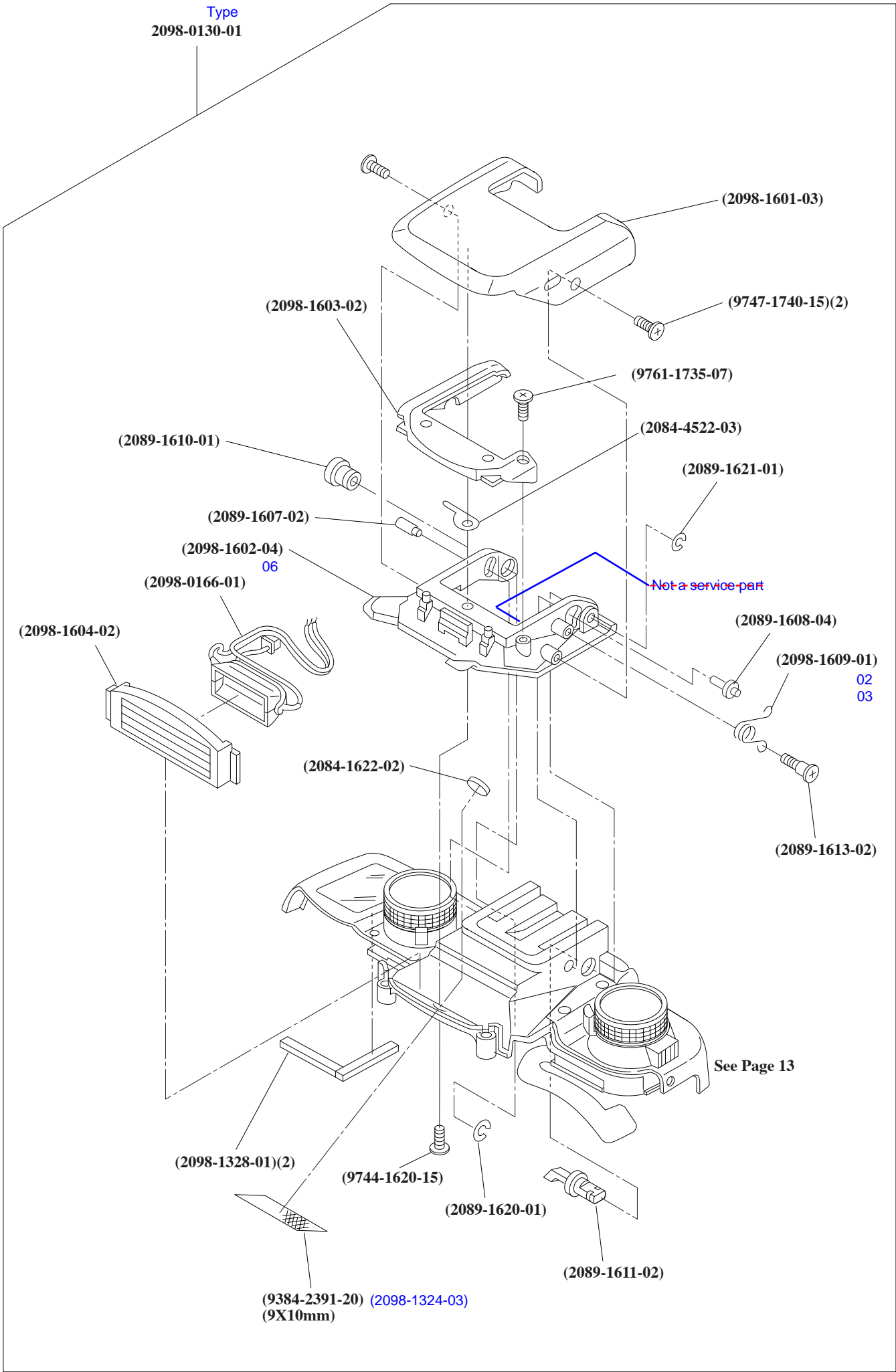
PART NO.	PART NAME		QTY.
2098-0402-01	FPC-B ASSY	Bフレキセット	1
*2098-0500-01	MIRROR BOX ASSY	ミラーボックスセット	1
2098-0500-02	MIRROR BOX ASSY	ミラーボックスセット	1
(2098-0250-01)	APERTURE BASEPLATE ASSY	絞り台板セット	1
[9384-2190-50]	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
(2098-0260-01)	AF-MOTOR BASE ASSY	AFモーター台板セット	1
[2098-0407-01]	FPC-G ASSY	Gフレキセット	1
[2077-2616-01]	COLLAR	AFサイレントカラー	3
[9384-2391-20]	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
[9762-1480-01]	SCREW	ねじ	1
(2089-0512-01)	MIRROR DOWN SP UNIT	主ミラーダウンSPセット	1
(2098-0515-01)	SPC2 LENS HOLDER ASSY	SPC2レンズホルダーセット	1
(2098-2619-02)	SCREW	ねじ	3
(2098-5111-02)	LIGHT SHIELD SHEET	遮光シート	1
(2098-5112-01)	MASK SHEET	マスク板	1
(2098-5806-01)	MAIN MIRROR	主ミラー	1
(9744-1655-01)	SCREW	ねじ	1
(9746-1625-07)	SCREW	ねじ	2
(9747-1745-07)	SCREW	ねじ	2
2089-5051-02	SCREW	ねじ	3
2089-5052-05	AF ADJUSTMENT SP	AF調整SP	3
2082-5054-01	WASHER	ワッシャ	3



PART NO.	PART NAME		QTY.
*2098-0132-01	BACK-COVER RELEASE ASSY	裏蓋ロックつまみセット	1
2098-0132-02	BACK-COVER RELEASE ASSY	裏蓋ロックつまみセット	1
2098-0139-01	EYEPIECE ASSY	接眼枠セット	1
(2098-0584-01)	EYEPIECE-SHUTTER-A ASSY	アイピースシャッターAセット	1
[2098-5835-01]	EYEPIECE-SHUTTER SP	アイピースシャッター駆動SP	1
(2098-5830-04)	EYEPIECE-SHUTTER LEVER	アイピースシャッターレバー	1
(2098-5831-04)	EYEPIECE-SHUTTER HOLDER	アイピースシャッター押え板	1
(2098-5834-03)	EYEPIECE-SHUTTER-B	アイピースシャッターB	1
(9747-1730-07)	SCREW	ねじ	2
(9749-1735-07)	SCREW	ねじ	1
(9791-1830-40)	WASHER	ワッシャ	1
(9795-4160-40)	WASHER	ワッシャ	1
2098-1005-04	SIDE COVER-B	サイドカバーB	1
2098-1034-01	BACK-COVER RELEASE LOCK PLATE	裏蓋ロックプレート	1
2098-1441-01	MAIN SWITCH HOLDER	メインSWホルダー	1
2098-1443-01	MAIN SWITCH CONTACT	メインSW接片	1
2098-1444-03	MAIN SWITCH	メインSWレバー	1
2098-1445-01	MAIN SWITCH CLICK	メインSWクリック板	1
2098-1451-03	CONTROL-PANEL DOOR	ウイングカバー	1
2098-1453-01	CONTROL-PANEL DOOR SHEET	ウイングカバー貼皮	1
2098-1454-02	CONTROL-PANEL DOOR SHAFT	ウイングカバーヒンジ軸	1
2098-1455-02	CONTROL-PANEL DOOR SP	ウイングカバーSP	1
9744-1625-01	SCREW	ねじ	1
9747-1725-07	SCREW	ねじ	1
9747-1730-01	SCREW	ねじ	1

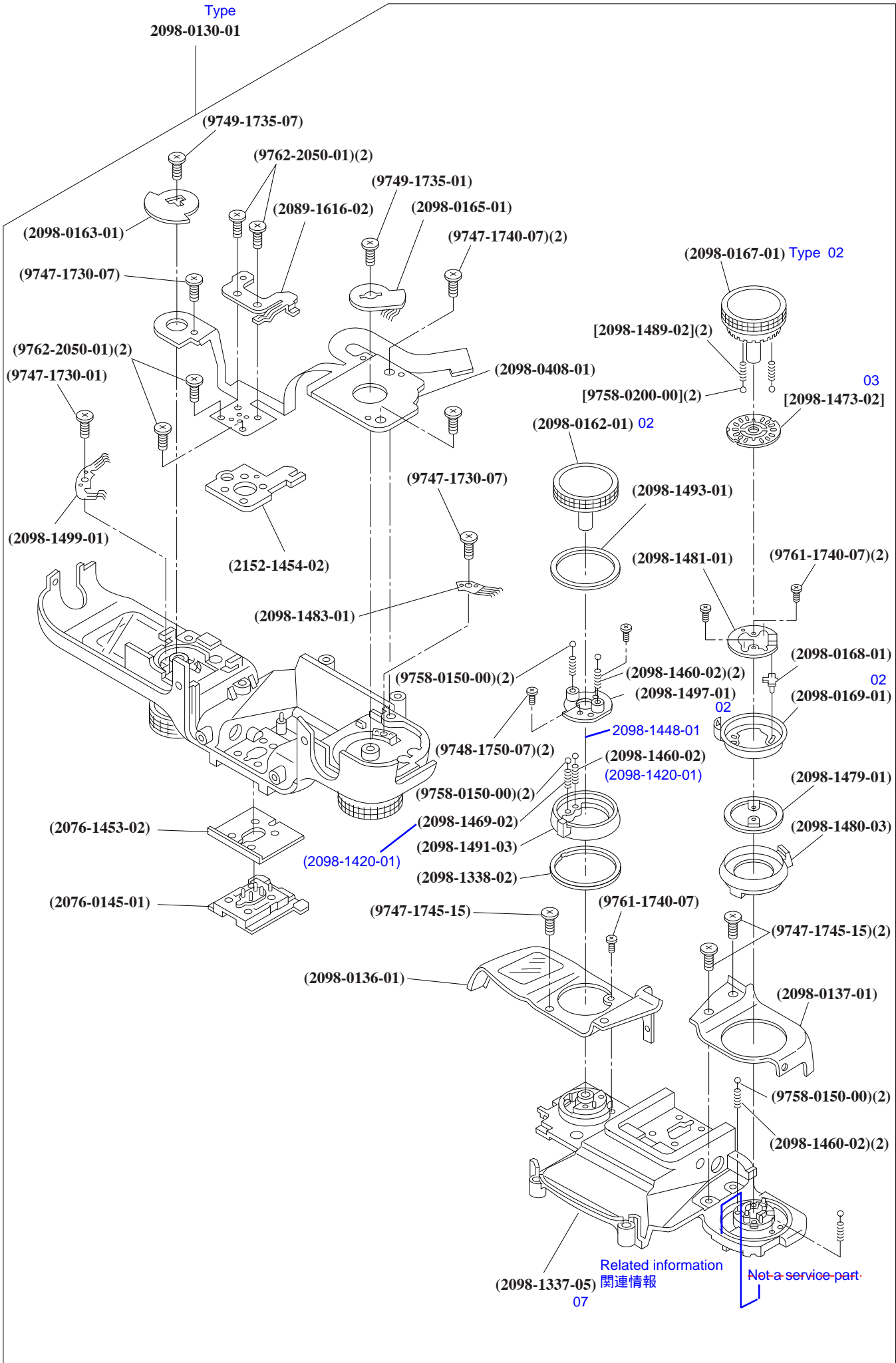


PART NO.	PART NAME		QTY.
2098-1315-05	REAR DIAL COVER	後ダイヤルカバー	1
2098-1331-03	SHUTTER BUTTON COVER	レリーズカバー	1
2098-1336-03	DATA-PANEL ILLUMINATOR LEVER	バックライトレバー	1
2098-1342-02	ILLUMINATOR LEVER SP	バックライトSP	1
2098-1343-02	ILLUMINATOR LEVER PRESSURE	バックライトレバー押え板	1
*2098-1351-03	AE-LOCK BUTTON	AEL釦	1
2098-1351-05	AE-LOCK BUTTON	AEL釦	1
2098-1352-03	METERING-MODE SWITCH	測光モード切換えレバー	1
2098-1353-02	METERING-MODE CONTACT	測光モード接片	1
2098-1354-01	METERING-MODE CLICK	測光モードクリック板	1
2098-1355-01	AE-LOCK BUTTON SP	AEL釦SP	1
*2098-1356-02	AF BUTTON INSULATOR	絶縁キャップ	2 1
2098-1357-01	METERING-MODE SWITCH SPACER	測光モード切換えレバー間隔板	1
2098-1402-02	SHUTTER-RELEASE BUTTON	レリーズ釦	1
2098-1403-03	SHUTTER BUTTON CONTACT-A	レリーズSW接片A	1
2101-1403-01	RELEASE BUTTON SP	レリーズ釦SP	1
2098-1404-03	SHUTTER BUTTON CONTACT-B	レリーズSW接片B	2
2098-1405-03	SHUTTER BUTTON CONTACT-C	レリーズSW接片C	1
2101-1405-01	SEALING CAP	防滴キャップ	1
*2081-1406-03	SHUTTER BUTTON CONTACT SPACER	レリーズSW接片スペーサー	1
2098-1406-02	SHUTTER BUTTON CONTACT SPACER	レリーズSW接片スペーサー	1
*2081-1408-04	SHUTTER BUTTON CONTACT INSULATOR	レリーズSW接片絶縁板	1
2098-1410-02	SHUTTER BUTTON CONTACT INSULATOR	レリーズSW接片絶縁板	1
2429-1715-01	PANORAMA SWITCH (PANORAMA)	パノラマSW	1
2098-1762-03	BACK BOTTOM COVER	背面つまみカバー	1
2098-1763-02	FLASH-MODE SWITCH	フラッシュモード切換えレバー	1
2098-1764-01	FLASH-MODE CONTACT	フラッシュモード切換えレバー接片	1
2098-1765-02	EYE-START SWITCH	アイスタート禁止レバー	1
2098-1766-01	EYE-START SWITCH CONTACT	アイスタート禁止レバー接片	1
9721-0150-50	E-RING	Eリング	1
9747-1430-07	SCREW	ねじ	1
9747-1730-07	SCREW	ねじ	2
9747-1735-01	SCREW	ねじ	2
9747-1750-07	SCREW	ねじ	1
9791-1735-86	WASHER	ワッシャー	1



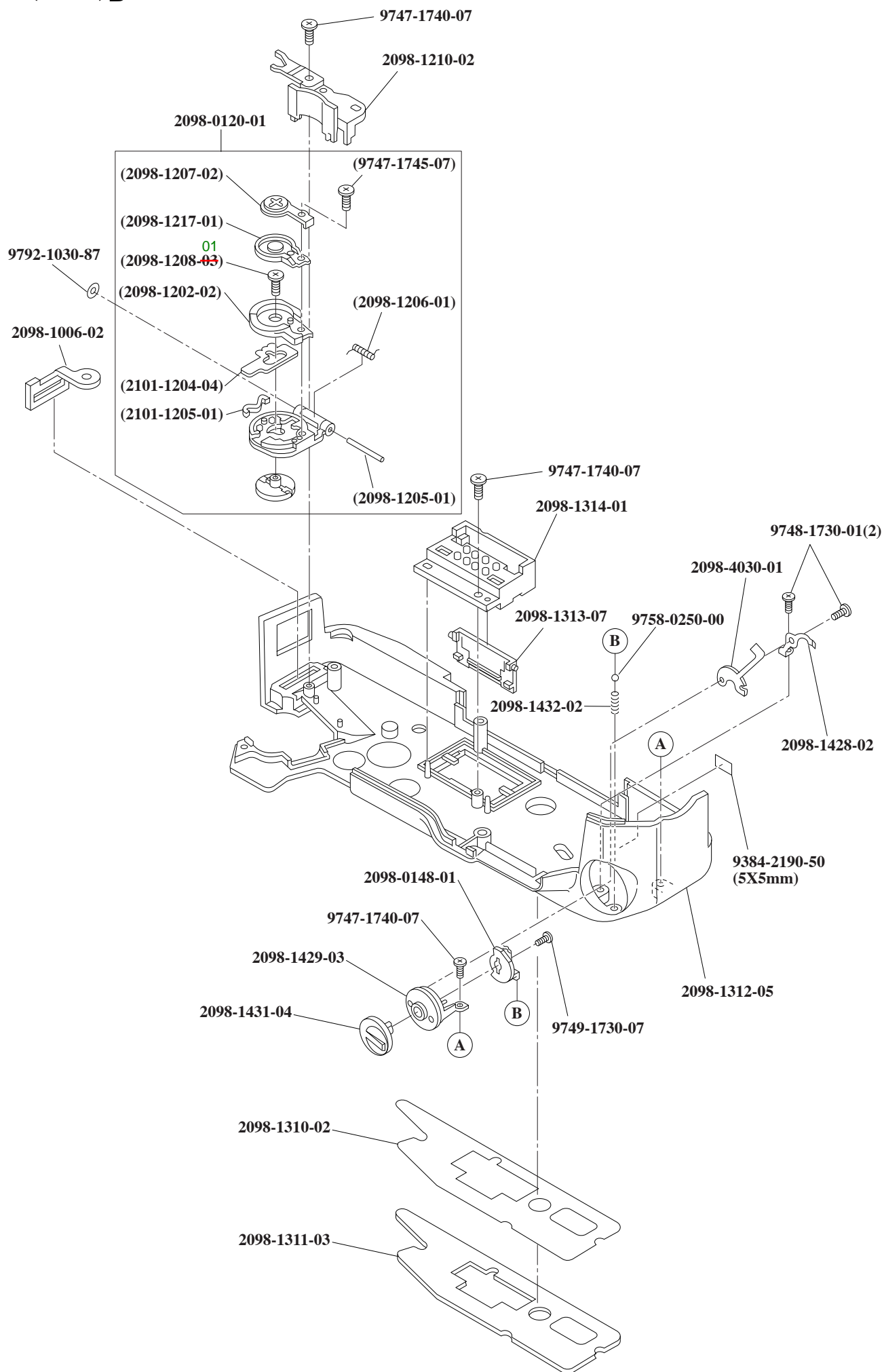
PART NO.	PART NAME		QTY.
2098-0130-01	TOP COVER ASSY	上カバーセット	1
(2098-0166-01)	FLASH ASSY	発光部セット	1
(2098-1324-03)	FINDER LIGHT SHIELD TAPE-B	ファインダー遮光テープB	1
(2098-1328-01)	LCD1 DUSTPROOF SHEET	LCD1防塵シート	2
(2098-1601-03)	FLASH COVER (TOP)	発光部ケース(上)	1
*(2098-1602-04)	FLASH COVER (BOTTOM)	発光部ケース(下)	1
(2098-1602-06)	FLASH COVER (BOTTOM)	発光部ケース(下)	1
(2098-1603-02)	FLASH COVER (MIDDLE)	発光部内カバー	1
(2098-1604-02)	FLASH PANEL	発光パネル	1
(2089-1607-02)	SCREW	ねじ	1
(2089-1608-04)	STOPPER PIN (L)	ストッパーピン(L)	1
*(2098-1609-01)	FLASH SP	フラッシュアップSP	1
*(2098-1609-02)	FLASH SP	フラッシュアップSP	1
(2098-1609-03)	FLASH SP	フラッシュアップSP	1
(2089-1610-01)	FLASH SHAFT (L)	回転軸(L)	1
(2089-1611-02)	FLASH SHAFT (R)	回転軸(R)	1
(2089-1613-02)	SCREW	ねじ	1
(2089-1620-01)	C-RING	Cリング	1
(2089-1621-01)	C-RING	Cリング	1
(2084-1622-02)	COVER PLATE-A	F飾り板A	1
(2084-4522-03)	GROUND PLATE-B	ラグ板B	1
(9384-2391-20)	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
(9744-1620-15)	SCREW	ねじ	1
(9747-1740-15)	SCREW	ねじ	2
(9761-1735-07)	SCREW	ねじ	1

13(2098)A

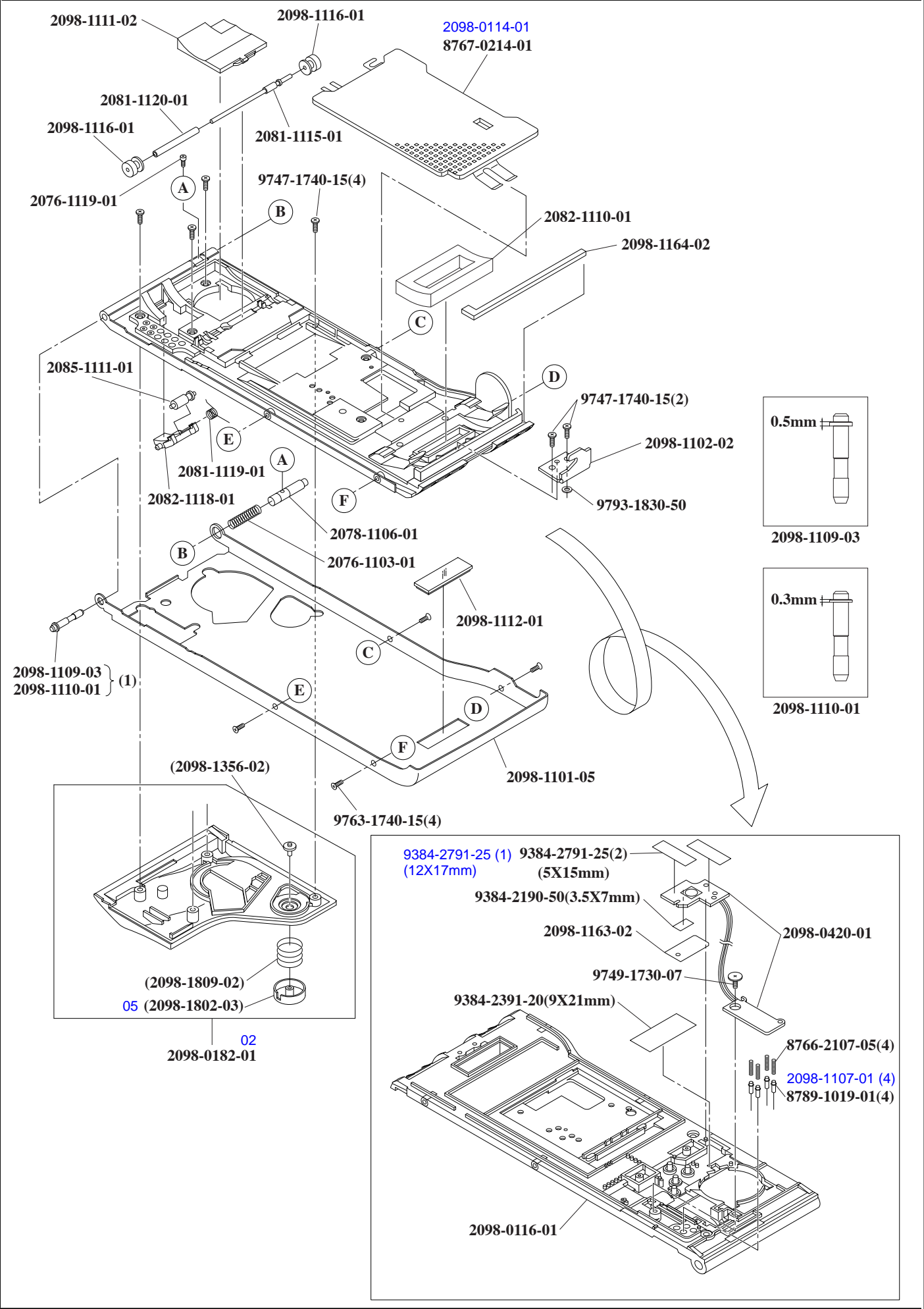


PART NO.	PART NAME		QTY.
2098-0130-01	TOP COVER ASSY	上カバーセット	1
(2098-0136-01)	TOP COVER ASSY-A	上カバーセットA	1
(2098-0137-01)	TOP COVER ASSY-B	上カバーセットB	1
(2076-0145-01)	ACC. SHOE SET	アクセサリースシューセット	1
*(2098-0162-01)	EXPOSURE-MODE DIAL ASSY	露出モードダイヤルセット	1
(2098-0162-02)	EXPOSURE-MODE DIAL ASSY	露出モードダイヤルセット	1
(2098-0163-01)	MODE DIAL CONTACT ASSY	露出モードダイヤル接片セット	1
(2098-0165-01)	COMPENSATION DIAL CONTACT ASSY	露出補正ダイヤル接片セット	1
*(2098-0167-01)	EXPOSURE-COMPENSATION DIAL ASSY	露出補正ダイヤルセット	1
(2098-0167-02)	EXPOSURE-COMPENSATION DIAL ASSY	露出補正ダイヤルセット	1
*[2098-1473-02]	COMPENSATION CLICK	露出補正クリック板	1
[2098-1473-03]	COMPENSATION CLICK	露出補正クリック板	1
[2098-1489-02]	COMPENSATION CLICK SP	露出補正クリック板SP	2
[9758-0200-00]	STEEL BALL	スチールボール	2
(2098-0168-01)	COMPENSATION LOCK PIN ASSY	露出補正ロックピンセット	1
*(2098-0169-01)	EXPOSURE-COMPENSATION LOCK ASSY	露出補正ロックレバーセット	1
(2098-0169-02)	EXPOSURE-COMPENSATION LOCK ASSY	露出補正ロックレバーセット	1
(2098-0408-01)	FPC-H ASSY	Hフレキセット	1
*(2098-1337-05)	TOP INSULATION COVER	上絶縁カバー	1
(2098-1337-07)	TOP INSULATION COVER	上絶縁カバー	1
(2098-1338-02)	DRIVE DIAL BASE RING	ドライブモード飾りリング	1
(2098-1420-01)	DRIVE-MODE LEVER SP	ロックレバークリックSP	2
(2098-1448-01)	DRIVE-MODE CLICK PLATE	ドライブモードクリック板	1
(2076-1453-02)	SHOE BASE	シュー敷板	1
(2152-1454-02)	SHOE BASE	シュー取付け板	1
*(2098-1460-02)	DRIVE-MODE LEVER SP	ロックレバークリックSP	5 4
*(2098-1469-02)	MODE DIAL SP	ダイヤルクリックSP	1
(2098-1479-01)	FLASH DIAL PRESSURE	調光補正ダイヤル押え	1
(2098-1480-03)	FLASH-COMPENSATION DIAL	調光補正ダイヤル	1
(2098-1481-01)	COMPENSATION LOCK PRESSURE	露出補正ロックレバー押え板	1
(2098-1483-01)	FLASH DIAL CONTACT	調光補正ダイヤル接片	1
(2098-1491-03)	DRIVE-MODE LEVER	ドライブモードレバー	1
(2098-1493-01)	MODE DIAL BASE RING	露出モード飾りリング	1
*(2098-1497-01)	MODE DIAL BASE	露出モード台板	1
(2098-1497-02)	MODE DIAL BASE	露出モード台板	1
(2098-1499-01)	MODE DIAL CONTACT	露出モード接片	1
(2089-1616-02)	SFL CONTACT	SFL接片	1
(9747-1730-01)	SCREW	ねじ	1
(9747-1730-07)	SCREW	ねじ	2
(9747-1740-07)	SCREW	ねじ	2
(9747-1745-15)	SCREW	ねじ	3
(9748-1750-07)	SCREW	ねじ	2
(9749-1735-01)	SCREW	ねじ	1
(9749-1735-07)	SCREW	ねじ	1
(9758-0150-00)	STEEL BALL	スチールボール	6
(9761-1740-07)	SCREW	ねじ	3
(9762-2050-01)	SCREW	ねじ	4

14(2098)B



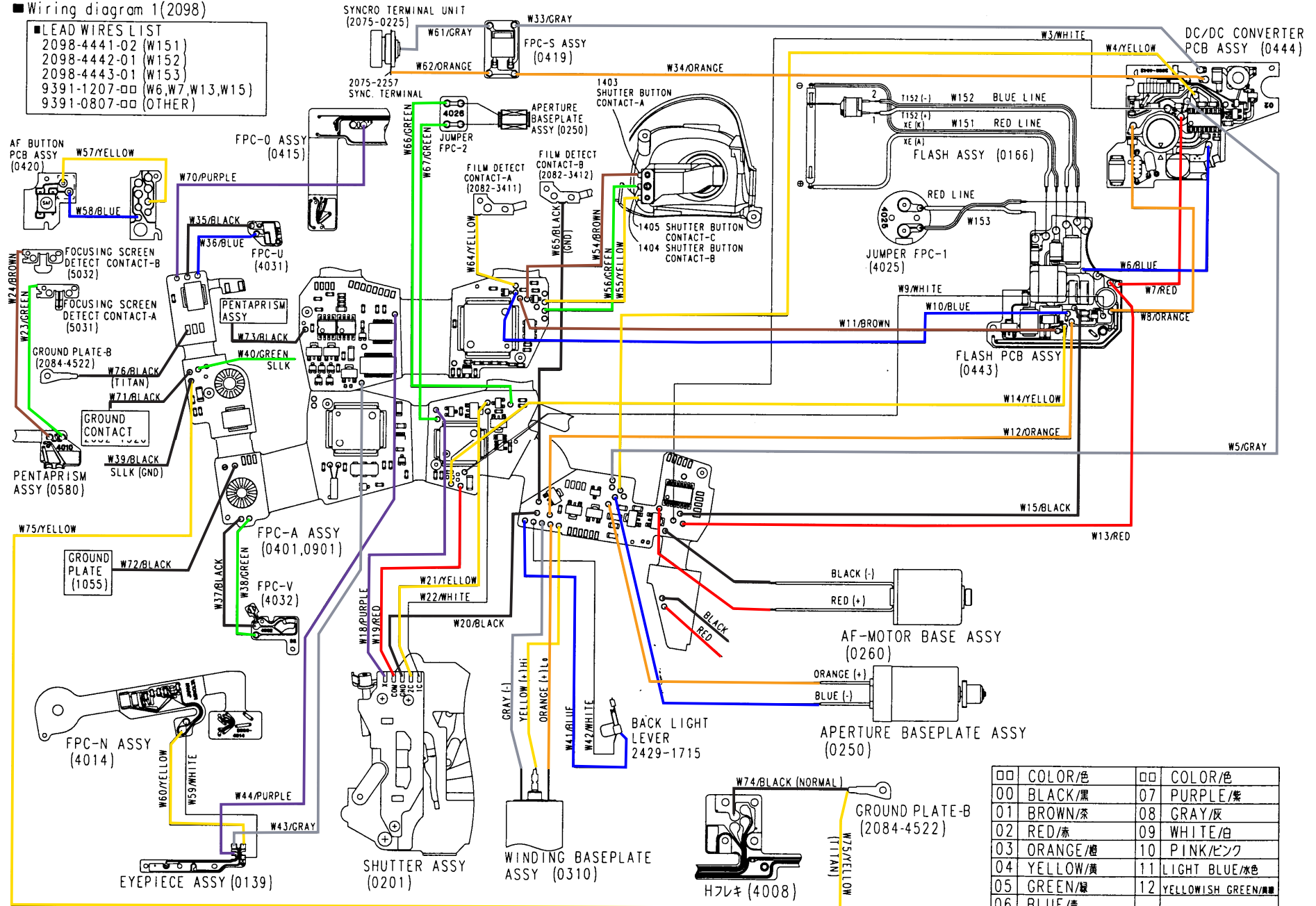
PART NO.	PART NAME		QTY.
2098-0120-01	BATTERY COVER ASSY	電池蓋セット	1
(2098-1202-02)	BATTERY COVER PLATE	電池蓋ロック押え板	1
(2101-1204-04)	BATTERY COVER RELEASE	電池蓋ロックレバー	1
(2098-1205-01)	BATTERY COVER SHAFT	電池蓋ヒンジ軸	1
(2101-1205-01)	BATTERY COVER CLICK	電池蓋クリック板	1
(2098-1206-01)	BATTERY COVER SP	電池蓋SP	1
(2098-1207-02)	BATTERY CONTACT (+)	電池接片(+)	1
(2098-1208-01)	SCREW	ねじ	1
(2098-1217-01)	BATTERY COVER INSULATOR	電池蓋絶縁板	1
(9747-1745-07)	SCREW	ねじ	1
2098-0148-01	AF-MODE DIAL CONTACT ASSY	AFモード切替え接片セット	1
2098-1006-02	GRIP STRAP EYELET	吊環	1
2098-1210-02	BACK-COVER HINGE PRESSURE	電池蓋ヒンジ押え	1
2098-1310-02	BOTTOM-COVER RUBBER TAPE	下カバーゴム貼り付けテープ	1
2098-1311-03	BOTTOM-COVER RUBBER	下カバーゴム	1
2098-1312-05	BOTTOM COVER	下カバー	1
2098-1313-07	VC-GRIP SIGNAL PIN COVER	縦位置グリップ信号ピン蓋	1
2098-1314-01	VC-GRIP SIGNAL PIN COVER HOLDER	縦位置グリップ信号ピン蓋押え	1
2098-1428-02	AF-MODE DIAL RESTRAIN	AFモード固定板	1
2098-1429-03	AF-MODE DIAL BASE	AFモード取付け板	1
2098-1431-04	AF-MODE DIAL	AFモード選択レバー	1
2098-1432-02	AF-MODE DIAL SP	AFモードクリックSP	1
2098-4030-01	FPC-T	Tフレキ	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9747-1740-07	SCREW	ねじ	3
9748-1730-01	SCREW	ねじ	2
9749-1730-07	SCREW	ねじ	1
9758-0250-00	STEEL BALL	スチールボール	1
9792-1030-87	WASHER	ワッシャ	1



PART NO.	PART NAME		QTY.
2098-0110-01	BACK COVER ASSY (COMPLETE)	裏蓋セット	1
2098-0114-01	PRESSURE PLATE ASSY	圧着板セット	1
2098-0116-01	BACK COVER ASSY	裏蓋カバー板セット	1
*2098-0182-01	AF BUTTON ASSY	AF釦セット	1
2098-0182-02	AF BUTTON ASSY	AF釦セット	1
(2098-1356-02)	AF BUTTON INSULATOR	絶縁キャップ	1
*(2098-1802-03)	AF BUTTON	AF釦	1
(2098-1802-05)	AF BUTTON	AF釦	1
(2098-1809-02)	AF BUTTON SP	AF釦SP	1
*8767-0214-01	PRESSURE PLATE	圧着板	1
2098-0420-01	AF BUTTON PCB ASSY	AF釦基板セット	1
*8789-1019-01	SIGNAL PIN	信号ピン	4
2098-1101-05	BACK COVER	裏蓋	1
2098-1102-02	BACK-COVER LOCK	裏蓋ロック爪	1
2076-1103-01	HINGE SPRING	ヒンジSP	1
2078-1106-01	HINGE AXIS-A	ヒンジ軸A	1
2098-1107-01	SIGNAL PIN	信号ピン	4
2098-1109-03	BACK-COVER HINGE SHAFT-A	裏蓋ヒンジ軸A	1
2082-1110-01	LIGHT SHIELD SPONGE	パト表示遮光片	1
2098-1110-01	BACK-COVER HINGE SHAFT-B	裏蓋ヒンジ軸B	1
2085-1111-01	BACK COVER ROLLER-2	裏蓋可動ローラー	1
2098-1111-02	BATTERY COVER (QD)	電池蓋 (QD)	1
2098-1112-01	FILM WINDOW	パト表示窓	1
2081-1115-01	BACK COVER ROLLER-A AXIS	裏蓋固定ローラー軸	1
2098-1116-01	BACK-COVER ROLLER	裏蓋固定ローラー	2
2082-1118-01	ROLLER PLATE	裏蓋可動板	1
2076-1119-01	SCREW	ねじ	1
2081-1119-01	ROLLER PLATE SP	裏蓋可動板バネ	1
2081-1120-01	BACK COVER ROLLER COLLAR	裏蓋固定ローラーカラー	1
2098-1163-02	BACK-COVER LIGHT SHIELD SHEET	裏蓋カバー板遮光シート	1
2098-1164-02	BACK-COVER DUSTPROOF SHEET-A	裏蓋防塵シートA	1
8766-2107-05	SIGNAL PIN SP	信号ピンSP	4
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9384-2391-20	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
*9384-2791-25	FILM TAPE-B	フィルムテープB	2...1
9747-1740-15	SCREW	ねじ	6
9749-1730-07	SCREW	ねじ	1
9763-1740-15	SCREW	ねじ	4
9793-1830-50	WASHER	ワッシャ	1

■ Wiring diagram 1 (2098)

■ LEAD WIRES LIST	
2098-4441-02	(W151)
2098-4442-01	(W152)
2098-4443-01	(W153)
9391-1207-□□	(W6, W7, W13, W15)
9391-0807-□□	(OTHER)

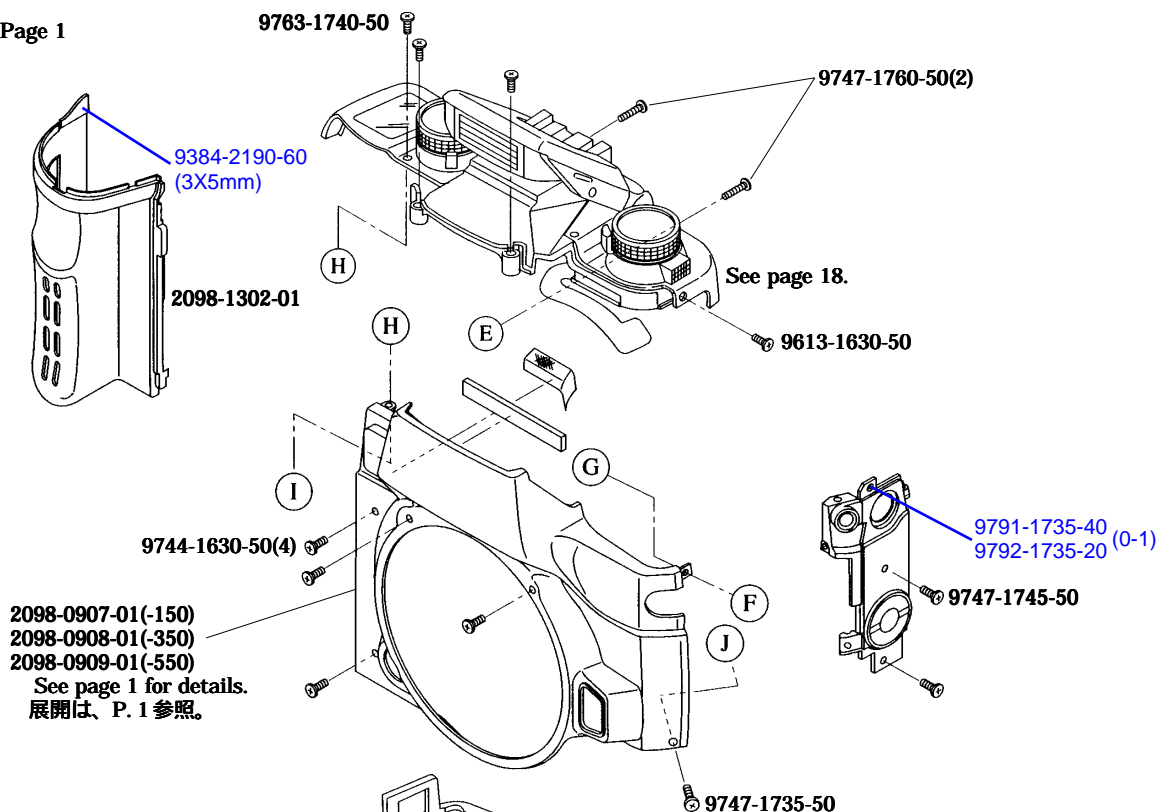


•Parts List pg. 17-19 shows exclusive parts for 2098-150, -350, -550.

See pg. 1-16 for parts common to 2098-100, -300, -500.

• パーツリストは2098-100, -300, -500 (P. 1 ~ P. 16)のパーツリストを参照してください。
但し、P. 17 ~ P. 19に2098-150, -350, -550の専用部品を記載します。

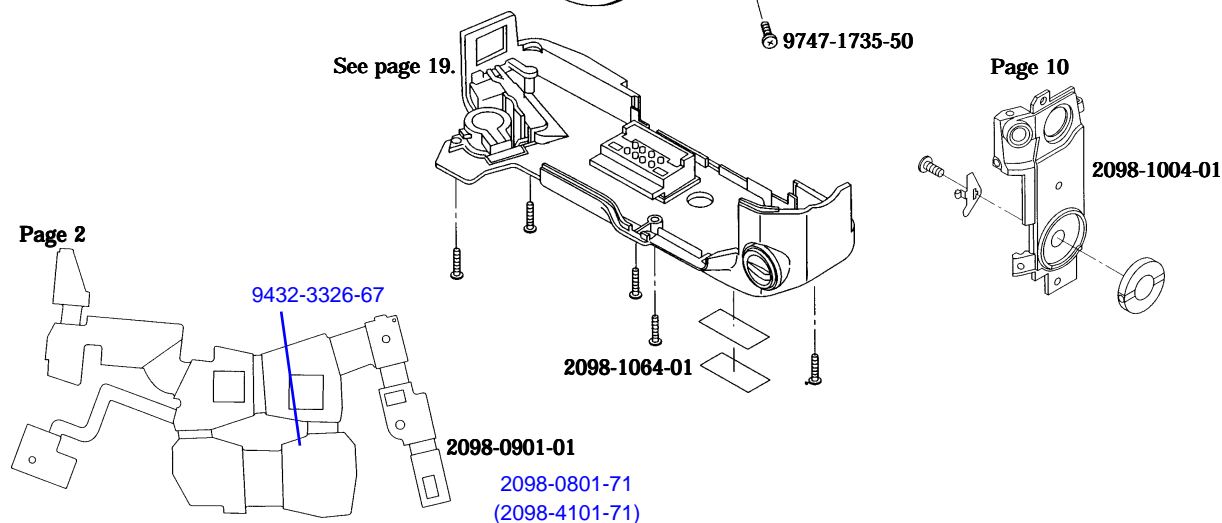
Page 1



See page 19.

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Page 2



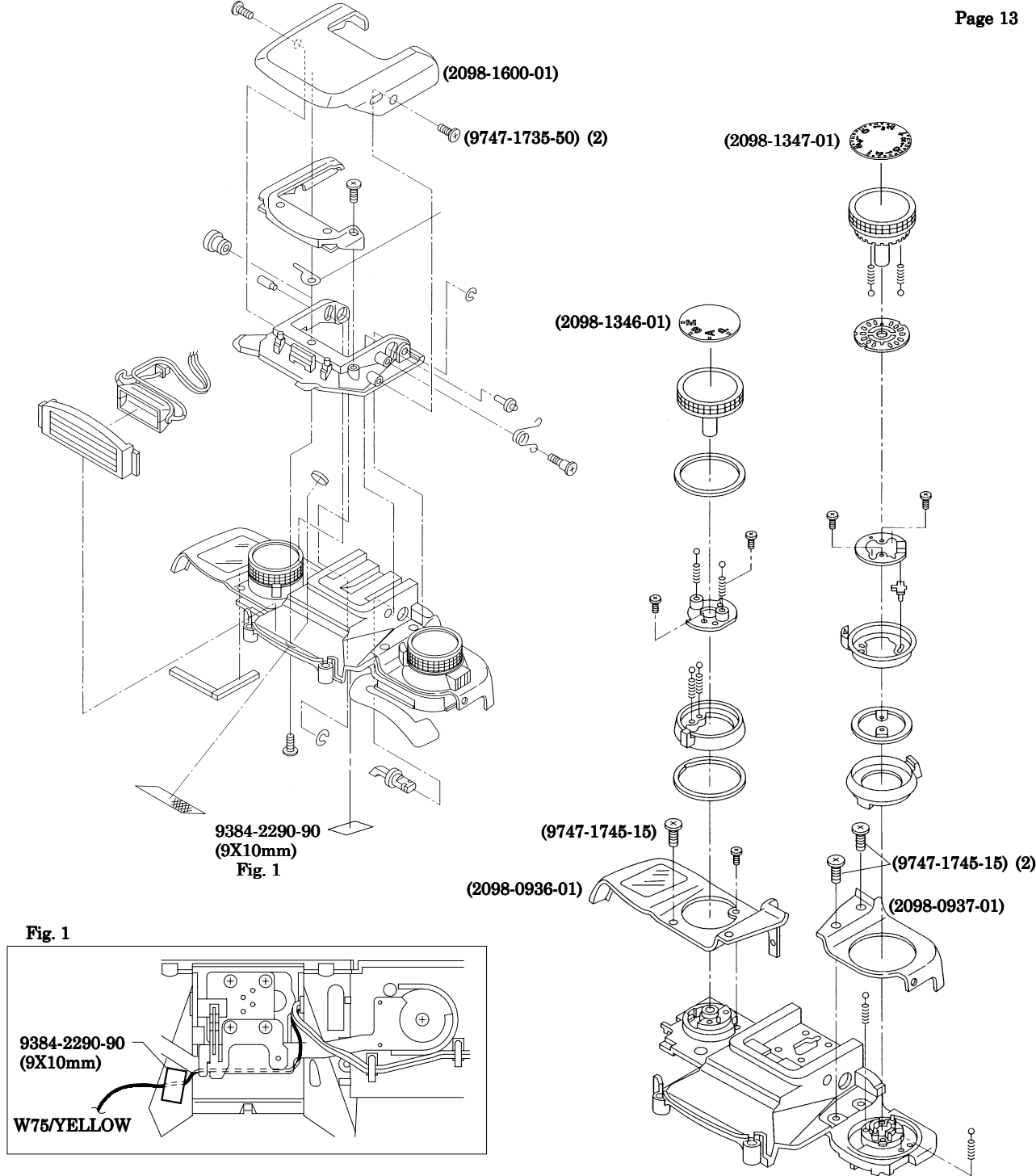
PART NO	PART NAME
2098-0801-71	FPC-A ASSY(FOR CUSTOM)
(2089-4101-71)	IC-1 (FOR CUSTOM)
2098-0901-01	FPC-A ASSY
2098-0907-01	FRONT COVER ASSY (-150)
2098-0908-01	FRONT COVER ASSY (-350)
2098-0909-01	FRONT COVER ASSY (-550)
2098-1004-01	SIDE COVER-B (-150, -350, -550)
2098-1064-01	SERIAL NUMBER PLATE (-150, -350, -550)
2098-1302-01	GRIP RUBBER (-150, -350, -550)
9384-2190-60	DOUBLE-FACED TAPE (PER ROLL)
9432-3326-67	RESISTOR
9613-1630-50	SCREW
9744-1630-50	SCREW
9747-1735-50	SCREW
9747-1745-50	SCREW
9747-1760-50	SCREW
9763-1740-50	SCREW
9791-1735-40	WASHER
9792-1735-20	WASHER

Aフレキセット(SSM カスタム用)	
IC-1(SSMカスタム用)	
Aフレキセット	
前カバーセット	
前カバーセット(-150)	
前カバーセット(-350)	
サイドカバー B (-550)	
ボディ No. 銘板(-150, -350, -550)	
グリップゴム(-150, -350, -550)	
両面テープ	
抵抗	
ねじ	
ねじ	
ねじ	
ねじ	
ねじ	
ねじ	
ワッシャ	
ワッシャ	

QTY.
1
1
1
1
1
1
1
1
2
1
0-1



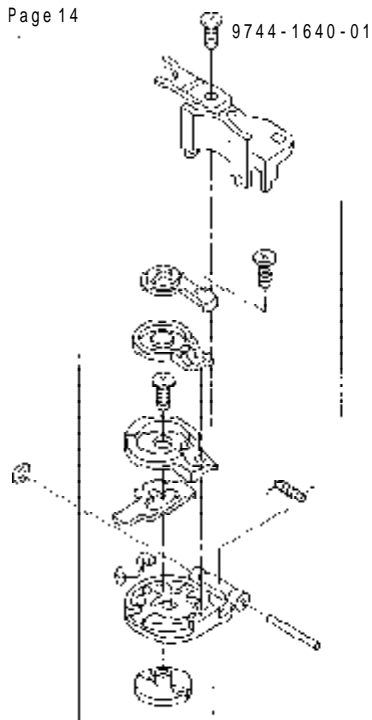
2098-0930-01
See page 12, 13 for details.
展開は、P. 12, 13 参照。



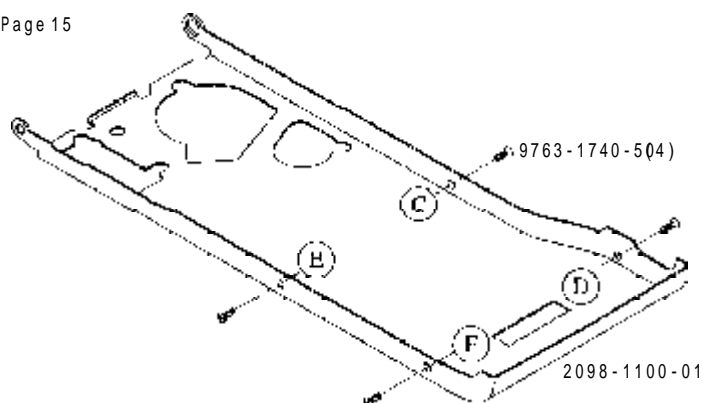
PART NO	PART NAME	QTY.
2098-0930-01	TOP COVER ASSY (-150, -350, -550)	1
(2098-0936-01)	TOP COVER ASSY-A (-150, -350, -550)	1
(2098-0937-01)	TOP COVER ASSY-B (-150, -350, -550)	1
(2098-1346-01)	EXPOSURE-MODE DIAL PLATE (-150, -350, -550)	1
(2098-1347-01)	EXPOSURE-COMPENSATION DIAL PLATE (-150, -350, -550)	1
(2098-1600-01)	FLASH COVER (TOP) (-150, -350, -550)	1
(9384-2290-90)	POLYESTER TAPE (PER ROLL/60M) YELLOW	1
(9747-1735-50)	SCREW	2
(9747-1745-15)	SCREW	3



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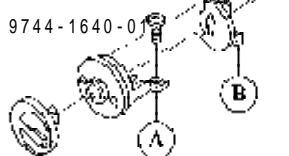
Page 15



2098-0875-01

Do not remove Bottom Cover Rubber
#2098-1311 because it is adhered with special agent.
特殊接着剤が塗布されているため、
下カバーゴム(2098-1311)は剥がさないこと。

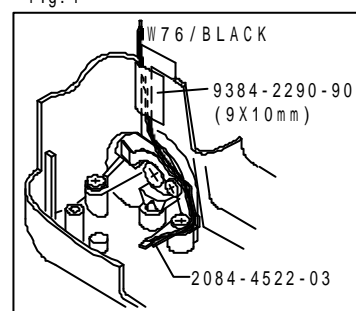
9744-1640-01



9384-2290-90
(9X10mm)
Fig. 1

9745-1630-01
2084-4522-03
9792-1740-40

Fig. 1



PART NO	PART NAME
2098-0875-01	BOTTOM COVER ASSY (-150, -350, -550)
2098-1100-01	BACK COVER (-150, -350, -550)
2084-4522-03	GROUND PLATE-B
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW
9744-1640-01	SCREW
9745-1630-07	SCREW
9763-1740-50	SCREW
9792-1740-40	WASHER

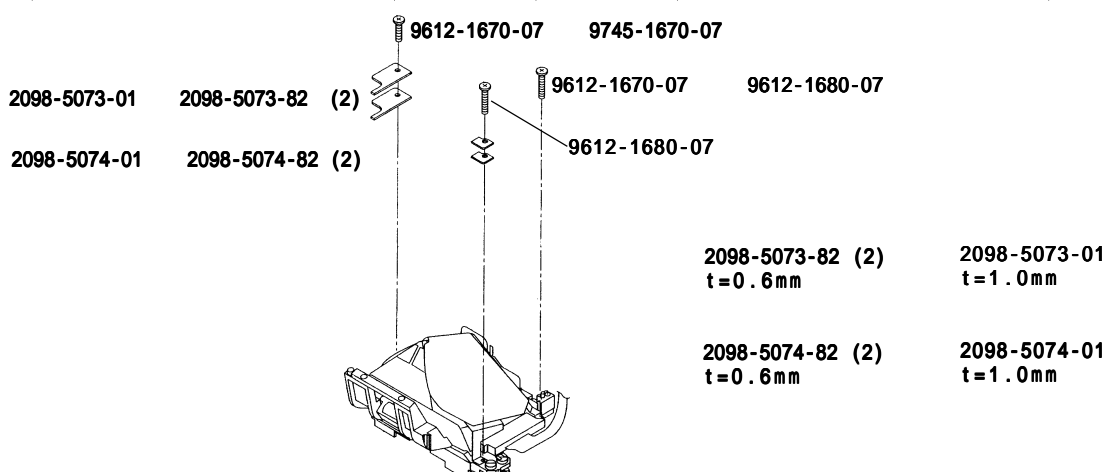
	QTY.
下カバーセット(-150, -350, -550)	1
裏蓋(-150, -350, -550)	1
ラグ板 B	1
ポリエステルテープ	1
ねじ	3
ねじ	1
ねじ	4
ワッシャ	1

(2098)A 1

管理No. REF No.	QS FA 2098-P001
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PARTS MODIFICATION LIST

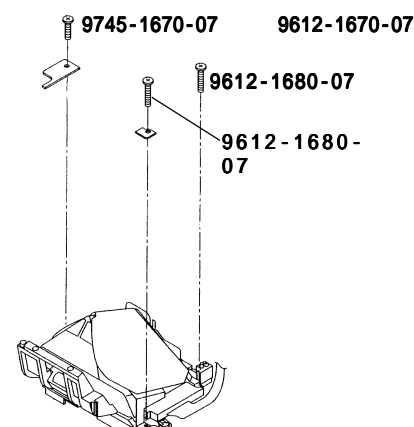
No. 001 Parts List P. 7 2098-482, 483

変更理由 REASON	生産都合 For efficient production				共通機種 COMMON MODEL	2098 Series
Previous	2098-5073-72	×	×		2098-5073-01	New
Previous	2098-5074-82	×	×		2098-5074-01	New
Previous	9612-1670-07	×	×		9745-1670-07	New
Previous	9612-1670-07	×	×		9612-1680-07	New
						
<ul style="list-style-type: none"> •Parts No. and quantity changed for plates. Screws changed to new type. •補助コード、員数および、ねじの変更。 						
Interchangeability as a set/セットでの互換性				Previous	→○	○←
						New

管理No. REF No.	QS FA 2098-P002
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PARTS MODIFICATION LIST

No. 002 Parts List P. 7 2098-553

変更理由 REASON	ファインダーバック値変動防止 To stabilize viewfinder back				共通機種 COMMON MODEL	2098 Series
Previous	9745-1670-07		×		9612-1670-07	New
						

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

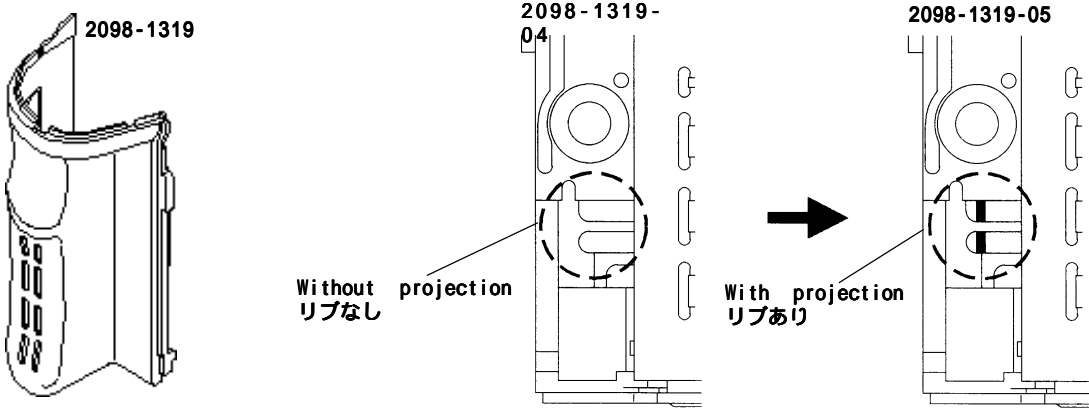
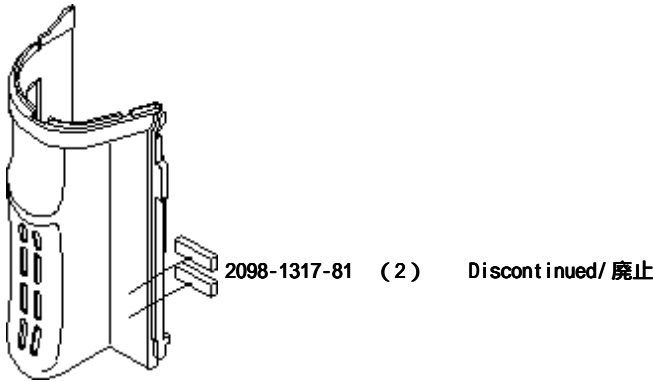
MINOLTA CO.,LTD.

(2098)A 2

管理No.	QS FA 2098-P003
REF No.	

PARTS MODIFICATION LIST

No. 003 Parts List P. 1 2098-502

変更理由 REASON	生産都合	共通機種 COMMON MODEL		2098 Series	
	For efficient production				
Previous	2098-1319-04	x	x	2098-1319-05	New
					
Previous	2098-1317-81	-	-	-----	New
					
Interchangeability as a set/セットでの互換性		Previous	→○	○←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

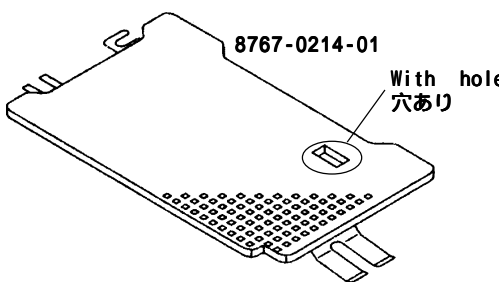
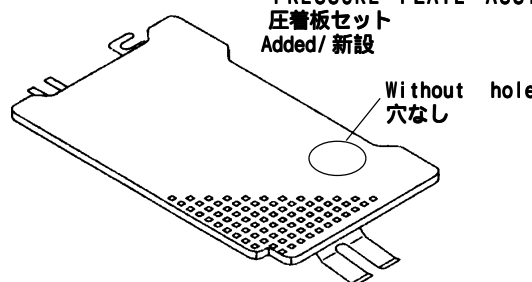
MINOLTA CO.,LTD.

(2098)A 3

管理No. REF No.	QS FA 2098-P004
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PARTS MODIFICATION LIST

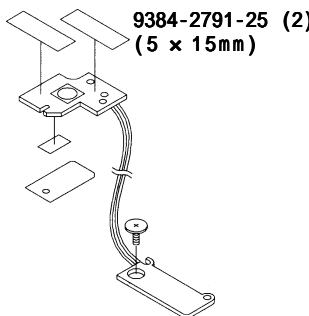
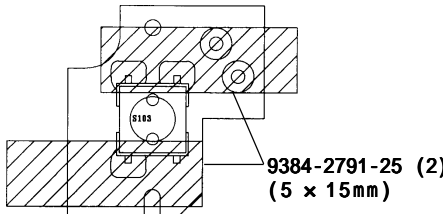
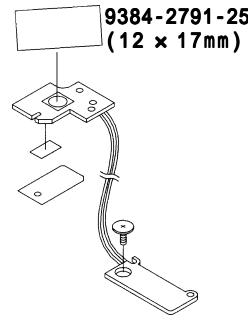
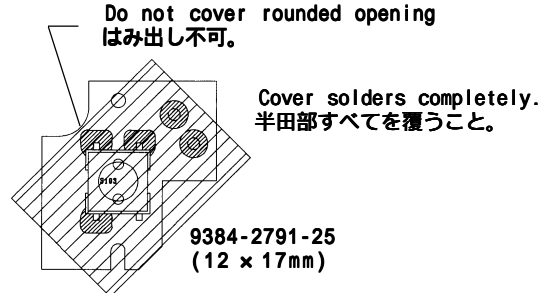
No. 004 Parts List P. 15 2098-514

変更理由 REASON	生産都合			共通機種 COMMON MODEL	2098 Series	
	For efficient production					
Previous	8767-0214-01		×	2098-0114-01	New	
<div><div><p>8767-0214-01 With hole 穴あり</p></div><div><p>2098-0114-01 PRESSURE PLATE ASSY 圧着板セット Added/ 新設 Without hole 穴なし</p></div></div>						

管理No. REF No.	QS FA 2098-P005
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PARTS MODIFICATION LIST

No. 005 Parts List P. 15 2098-520

変更理由 REASON	静電気対策			共通機種 COMMON MODEL	2098 Series	
	To prevent static electricity					
Previous	9384-2791-25	- -	- -	9384-2791-25	New	
<div><div><p>9384-2791-25 (2) (5 × 15mm)</p></div><div><p>9384-2791-25 (2) (5 × 15mm)</p></div><div><p>9384-2791-25 (12 × 17mm)</p></div><div><p>Do not cover rounded opening はみ出し不可。 Cover solders completely. 半田部すべてを覆うこと。 9384-2791-25 (12 × 17mm)</p></div></div>						
•Size and quantity changed. •寸法および員数変更。						

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

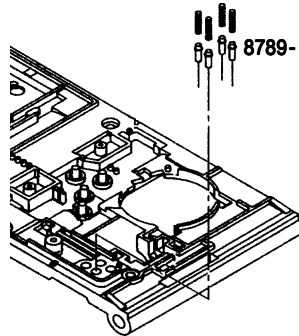
(2098)A 4

管理No. REF No.	QS FA 2098-P006
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PARTS MODIFICATION LIST

No. 006 Parts List P. 15 2098-530

変更理由 REASON	手配都合 For efficient parts supply			共通機種 COMMON MODEL	2098 Series
	Previous	8789-1019-01		2098-1107-01	New



2098-1107-01 (4)
SIGNAL PIN
信号ピン
Added/ 新設

- 8789-1019 is modified for exclusive use to #8789.
Use 2098-1107-01 for #2098 and #8790.
- 8789-1019は#8789用に部品更新されるため、#2098および#8790用とし8789-1019-01を2098-1107-01として部番のみ 変更する。

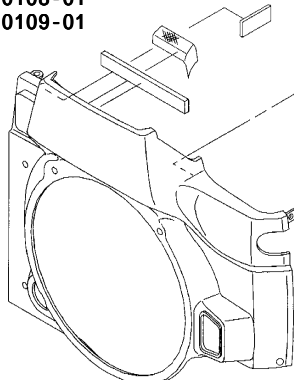
管理No. REF No.	QS FA 2098-P007
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PARTS MODIFICATION LIST

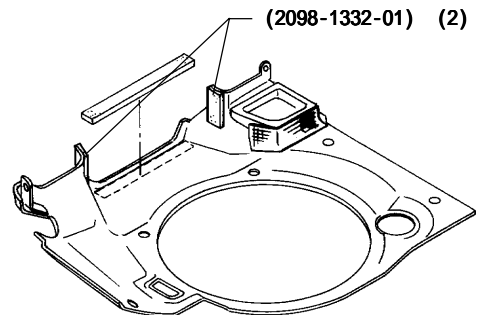
No. 007 Parts List P. 1 2098-532

変更理由 REASON	上カバーと前カバーの防塵および隙間の改善 To fill gap between Top and Front Cover			共通機種 COMMON MODEL	2098 Series
	Previous	-----	- -	(2098-1332-01)	New

2098-0107-01
2098-0108-01
2098-0109-01



(2098-1332-01) (2)
TOP COVER DUSTPROOF
SHEET
上カバー防塵シート
Added/ 新設



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 5

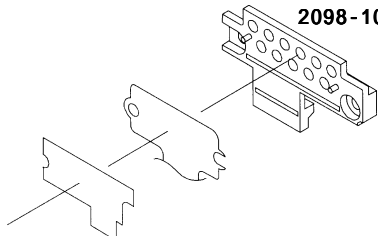
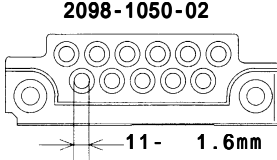
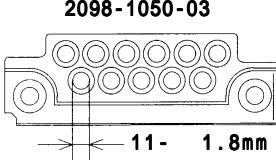
管理No. REF No.	QS FA 2098-P008
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PARTS MODIFICATION LIST

No. 008

Parts List P. 4

2098-534

変更理由 REASON	#8789信号ピン形状変更に伴う			共通機種 COMMON MODEL	2098 Series
	To suit with signal pin modification of #8789				
Previous	2098-1050-02		×	2098-1050-03	New
<div><div><p>2098-1050</p></div><div><p>2098-1050-02</p><p>11 - 1.6mm</p></div><div><p>2098-1050-03</p><p>11 - 1.8mm</p></div></div>					

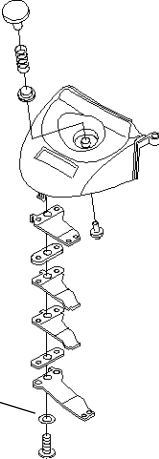
管理No. REF No.	QS FA 2098-P009
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PARTS MODIFICATION LIST

No. 009

Parts List P. 11

2098-537

変更理由 REASON	リリースSW接片ショート防止			共通機種 COMMON MODEL	2098 Series
	To prevent Shutter-Button Contact from short-circuiting				
Previous	-----	- -	- -	9791-1735-86	New
<div><p>9791-1735-86 WASHER/ ワッシャ Added/ 新設</p></div>					

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

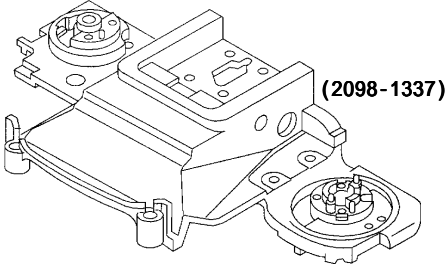
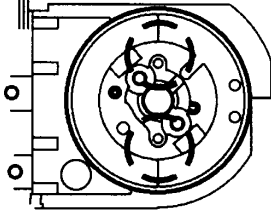
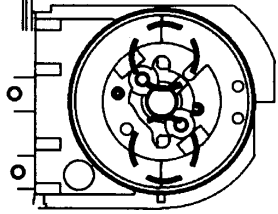
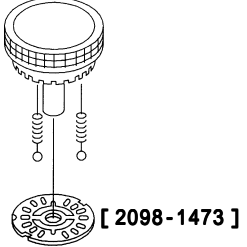
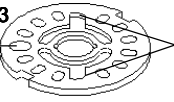
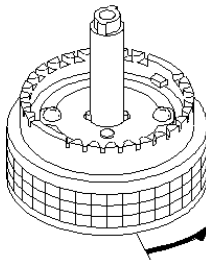
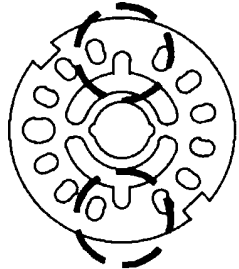
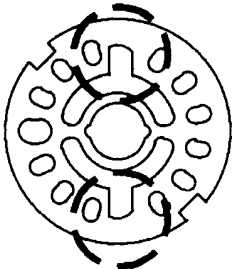
MINOLTA CO.,LTD.

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管理No.	QS FA 2098-P010
REF No.	

PARTS MODIFICATION LIST

No. 010 Parts List P. 13 2098-529, 542

変更理由 REASON	露出補正ダイヤル」操作によるボス折れ防止 To prevent post breakage beneath Exposure-Compensation Dial			共通機種 COMMON MODEL	2098 Series
Previous	2098-0130-01	-	-	2098-0130-01	New
Previous	(2098-1337-05)	×	×	(2098-1337-07)	New
<p>Related information QS FA 2098-P017 関連情報 : QS FA 2098-P017</p> <p>P. 12 P. 13</p> <p>2098-0130-01</p>  <p>(2098-1337)</p> <p>2098-0130-01:Type-1 Type-1 includes: (2098-1337-05) [2098-1473-02] Both not service parts.</p> <p>2098-0130-01:タイプ-1 (2098-1337-05) [2098-1473-02] 組込み品/サービス非供給</p> <p>2098-0130-01:Type-2 Type-2 includes: (2098-1337-07) [2098-1473-03]</p> <p>2098-0130-01:タイプ-2 (2098-1337-07) [2098-1473-03] 組込み品</p>  <p>(2098-1337-05)</p>  <p>(2098-1337-07)</p>					
Previous	(2098-0167-01)	-	-	(2098-0167-01)	New
Previous	[2098-1473-02]	×	×	[2098-1473-03]	New
<p>P. 13</p> <p>(2098-0167-01)</p>  <p>[2098-1473]</p> <p>Installation 2098-1473-03 組込み位置</p> <p>2098-1473-03 Larger hole 穴 : 大</p>  <p>Rounded R : 大 more</p>  <p>2098-0167-01 Type-2/ タイプ-2</p> <p>1/2-step index (with sheet) 1/2EV 側 (夜光シート貼付け側)</p> <p>(2098-0167-01):Type-1 Type-1 includes: [2098-1473-02] not a service part</p> <p>(2098-0167-01):タイプ-1 [2098-1473-02] 組込み品/サービス非供給</p> <p>(2098-0167-01):Type-2 Type-2 includes: [2098-1473-03]</p> <p>(2098-0167-01):タイプ-2 [2098-1473-03] 組込み品</p>  <p>[2098-1473-02]</p>  <p>[2098-1473-03]</p>					
<p>• Only type-2 of 2098-0130-01 and 2098-0167-01 are available as service parts. • 2098-0130-01および(2098-0167-01)はタイプ-2のみ供給。</p>					
Interchangeability as a set/セットでの互換性		Previous	→○	×←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

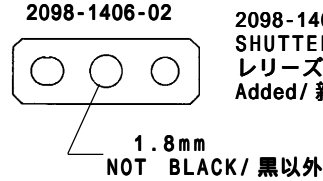
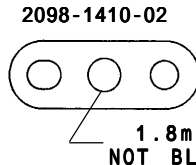
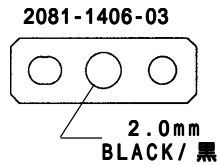
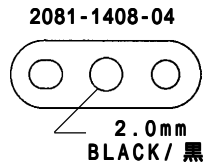
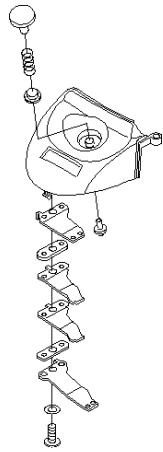
(2098)A 7

管理No. REF No.	QS FA 2098-P011
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PARTS MODIFICATION LIST

No. 011 Parts List P. 11 2098-544

変更理由 REASON	リリース接片ショート防止			共通機種 COMMON MODEL	2098 Series
	To prevent Shutter Button Contact from Short-circuitting				
Previous	2081-1406-03		×	2098-1406-02	New
Previous	2081-1408-04		×	2098-1410-02	New



2098-1410-02
SHUTTER BUTTON CONTACT INSULATOR
リリースSW 接片絶縁板
Added/ 新設

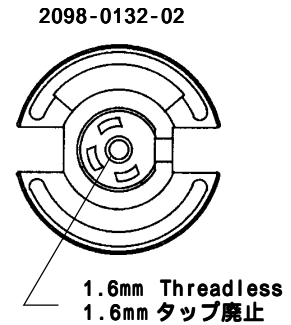
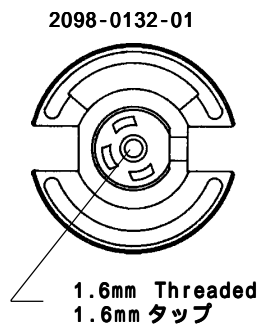
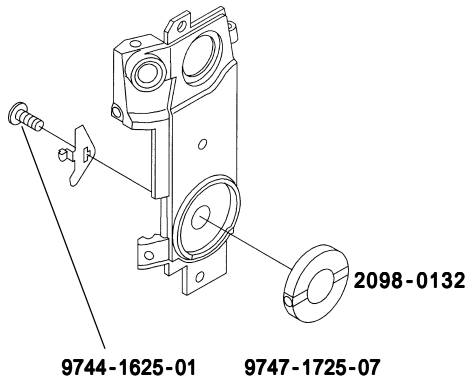
2098-1406-02
SHUTTER BUTTON CONTACT SPACER
リリースSW 接片スペーサー
Added/ 新設

管理No. REF No.	QS FA 2098-P012
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PARTS MODIFICATION LIST

No. 012 Parts List P. 10 2098-547

変更理由 REASON	コストダウン			共通機種 COMMON MODEL	2098 Series
	To cut cost				
Previous	2098-0132-01	×	×	2098-0132-02	New
Previous	9744-1625-01	×	×	9747-1725-07	New



Interchangeability as a set/セットでの互換性

Previous

→○

○←

New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

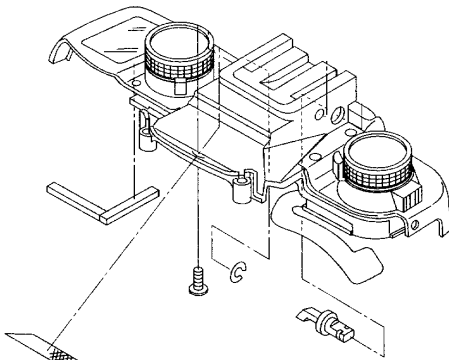
(2098)A 8

管理No. REF No.	QS FA 2098-P013
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PARTS MODIFICATION LIST

No. 013 Parts List P. 12 2098-547

変更理由 REASON	投光LED位置ズレ防止			共通機種 COMMON MODEL	2098 Series
	To stabilize focus area LEDs				
Previous	9384-2391-20		×	2098-1324-03	New



9384-2391-20
(9 x 10mm)

2098-1324-03
FINDER LIGHT SHIELD TAPE-B
ファインダー遮光テープB
Added/ 新設

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

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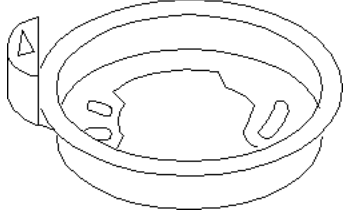
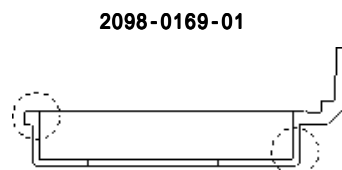
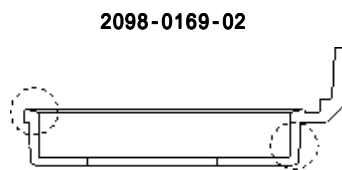
管理No. REF No.	QS FA 2098-P014
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PARTS MODIFICATION LIST

No. 014

Parts List P. 13

2098-557

変更理由 REASON	露出補正ダイヤルの作動改善			共通機種 COMMON MODEL	2098 Series
	To improve operation of Exposure-Compensation Dial				
Previous	2098-0169-01		×	2098-0169-02	New
<div><div><p>2098-0169</p></div><div><p>2098-0169-01</p></div><div><p>2098-0169-02</p></div></div>					

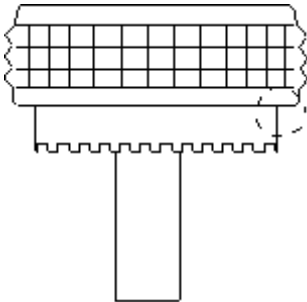
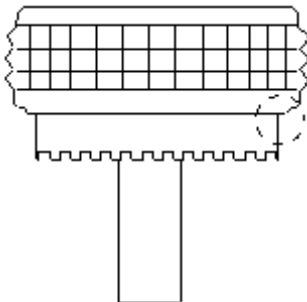
管理No. REF No.	QS FA 2098-P015
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PARTS MODIFICATION LIST

No. 015

Parts List P. 13

2098-557

変更理由 REASON	露出補正ダイヤルの隙間改善			共通機種 COMMON MODEL	2098 Series
	To fill gap beneath Exposure-Compensation Dial				
Previous	2098-0167-01		×	2098-0167-02	New
<div><div><div>2098-0167-01</div></div><div><div>2098-0167-02</div></div></div>					

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

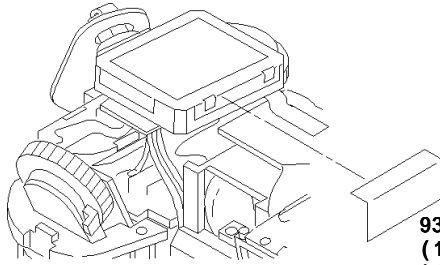
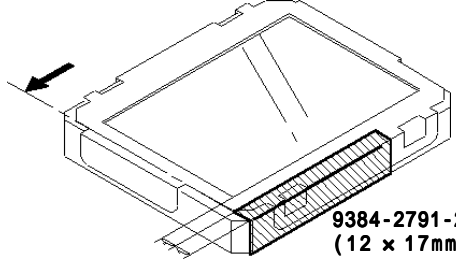
MINOLTA CO.,LTD.

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管理No. REF No.	QS FA 2098-P016
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PARTS MODIFICATION LIST

No. 016 Parts List P. 1 2098-564

変更理由 REASON	フラッシュコードのショート防止 To prevent short on flash cord			共通機種 COMMON MODEL	2098 Series
	Previous	-----	- -	9384-2791-25	New
 <p>9384-2791-25 (12 x 17mm) Added/ 追加</p>  <p>9384-2791-25 (12 x 17mm)</p>					

管理No. REF No.	QS FA 2098-P017
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PARTS MODIFICATION LIST

No. 017 Parts List P. 1, 12, 13 2098-542

変更理由 REASON	生産都合 For efficient production			共通機種 COMMON MODEL	2098 Series	
	Previous	(2098-1337-05)	×	×	(2098-1337-07)	New
Previous	2098-1327-81	- -	- -	-----		New
<p>P. 13</p>						
Related information QS FA 2098-P010 関連情報: QS FA 2098-P010						
Interchangeability as a set/セットでの互換性		Previous	→○	×	←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P018
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PARTS MODIFICATION LIST

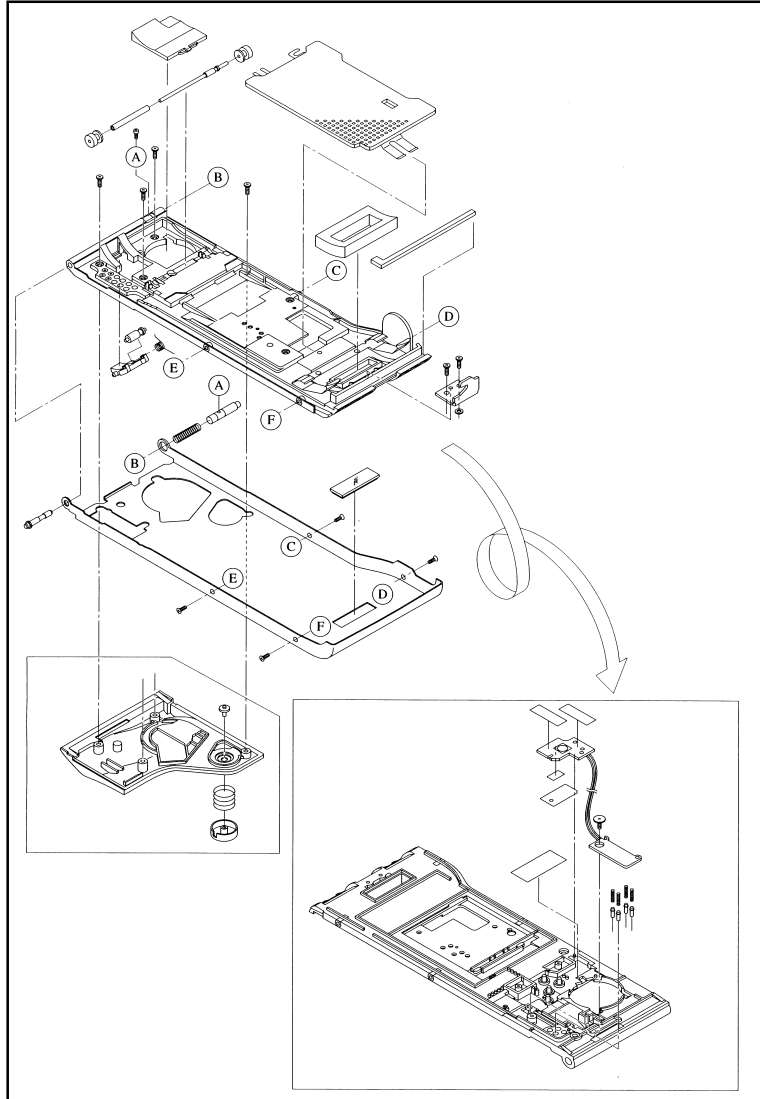
No. 018

Parts List P. 15

仮-668

変更理由 REASON	手配都合	共通機種 COMMON MODEL	2098 Series
	For efficient parts supply		
Previous	-----	- -	- -
		2098-0110-01	New

2098-0110-01
BACK COVER ASSY (COMPLETE)
裏蓋セット
Added/ 新設



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P019
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PARTS MODIFICATION LIST

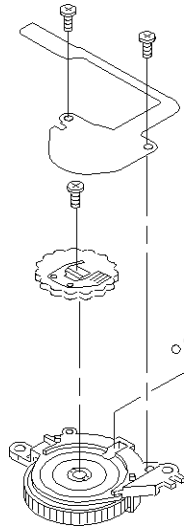
No. 019

Parts List P. 2, 4

2098-593

変更理由 REASON	前後ダイヤルのクリック力量アップ			共通機種 COMMON MODEL	2098 Series
	To increase Front/Rear-Dial tension				
Previous	2101-1466-01		×	2098-1418-01	New

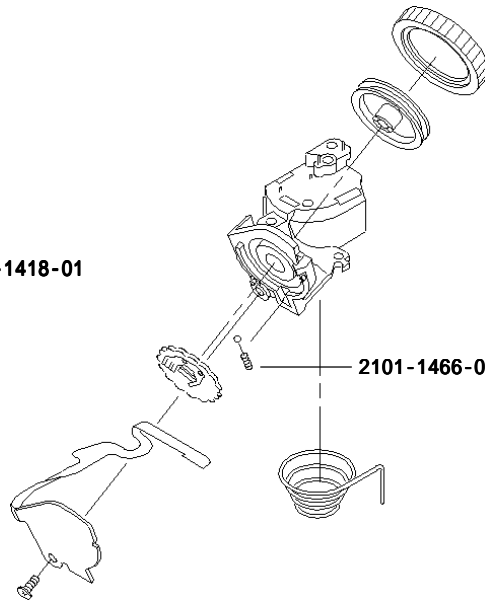
P. 2



2101-1466-01

2098-1418-01

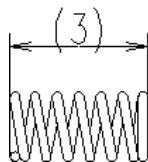
P. 4



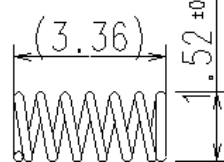
2101-1466-01

2098-1418-01

2101-1466-01



2098-1418-01



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

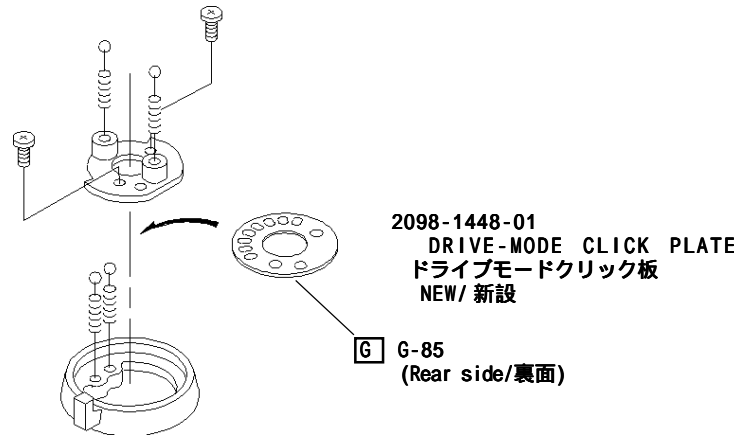
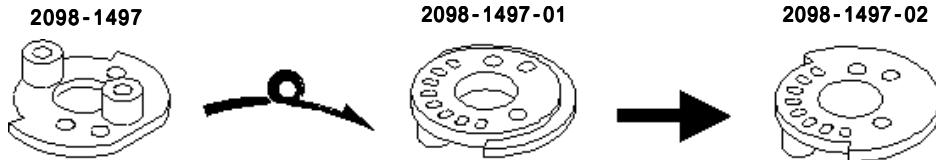
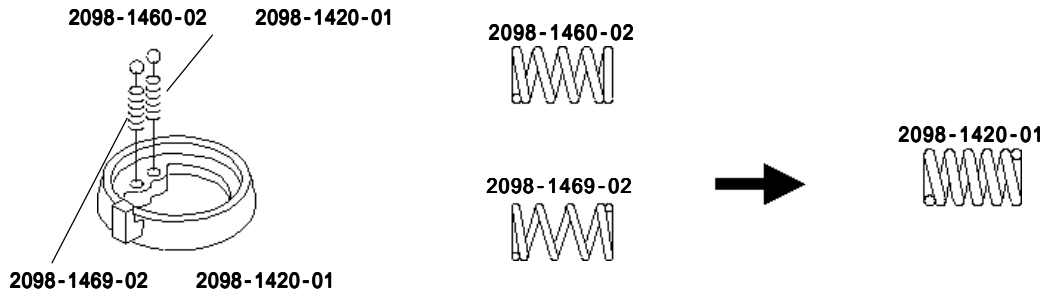
MINOLTA CO.,LTD.

(2098)A 13

管理No. REF No.	QS FA 2098-P020
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PARTS MODIFICATION LIST

No. 020 Parts List P. 13 2098-594, 595

変更理由 REASON	ドライブモードレバーのクリック力量アップ To increase Drive-Mode Dial tension			共通機種 COMMON MODEL	2098 Series	
	Previous	-----	- -	- -	2098-1448-01	New
<div></div>						
Previous	2098-1497-01	x	x	2098-1497-02	New	
<div></div>						
Previous	2098-1469-02	x	x	2098-1420-01	New	
Previous	2098-1460-02					
<div></div>						
Interchangeability as a set/セットでの互換性		Previous	→○	×←	New	

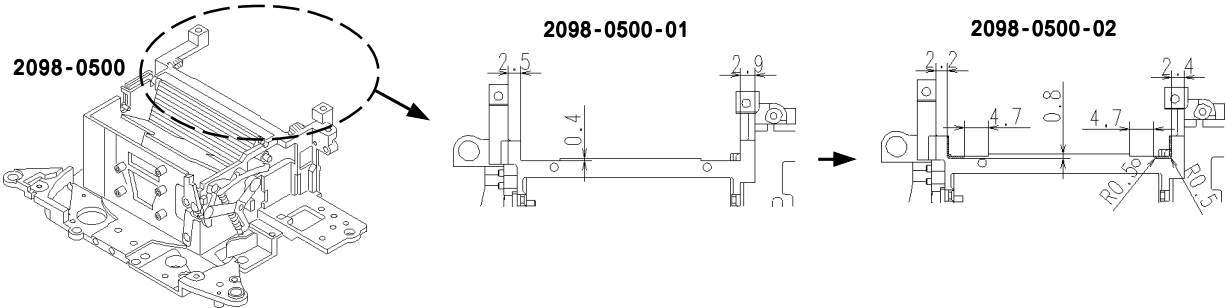
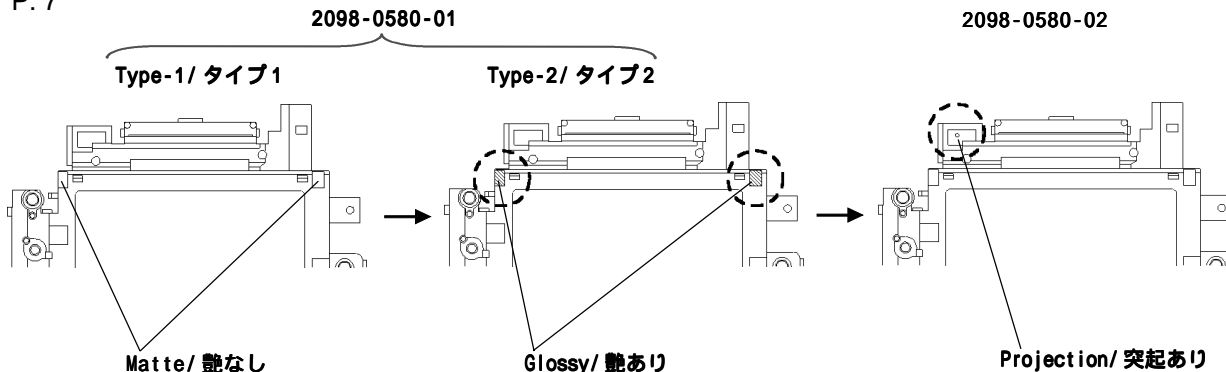
本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 14

管理No.	QS FA 2098-P021
REF No.	

PARTS MODIFICATION LIST

No. 021	Parts List P. 7, 8, 9	2098-608	SUPPLEMENTARY INFORMATION QS FA 2098-S02J/E		
変更理由 REASON	焦点板ホルダー軸受けの補強	共通機種 COMMON MODEL		2098 Series	
	To secure holder of Focusing Screen				
Previous	2098-0500-01		×	2098-0500-02	New
<p>P. 8 P. 9</p> 					
Previous	2098-0580-01	×	×	2098-0580-02	New
<p>P. 7</p> 					
Interchangeability as a set/セットでの互換性		Previous	→○	×←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P022
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PARTS MODIFICATION LIST

No. 022 Parts List P. 7 2098-626

変更理由 REASON	光漏れ防止			共通機種 COMMON MODEL	2098 Series
	To prevent light leak				
Previous	-----	- -	- -	2098-5003-01	New

(2098-0585-01)

2098-5003-01
LIGHT SHIELD SHEET-A
接眼レンズホルダー遮光シートA
New/ 新設

Reference line
貼付け基準

Affix #2098-5003 to shaded area.
斜線部に 2098-5003 を貼り付ける。

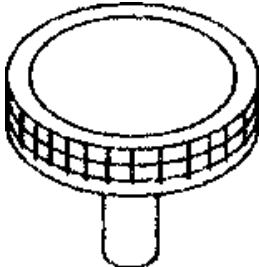
管理No. REF No.	QS FA 2098-P023
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PARTS MODIFICATION LIST

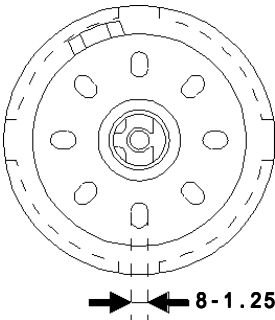
No. 023 Parts List P. 13 2098-628

変更理由 REASON	露出モードダイヤルのクリック力量アップ			共通機種 COMMON MODEL	2098 Series
	Increase tension of Expoure-Mode Dial				
Previous	2098-0162-01		×	2098-0162-02	New

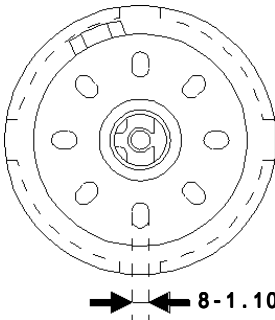
2098-0162



2098-0162-01



2098-0162-02



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 16

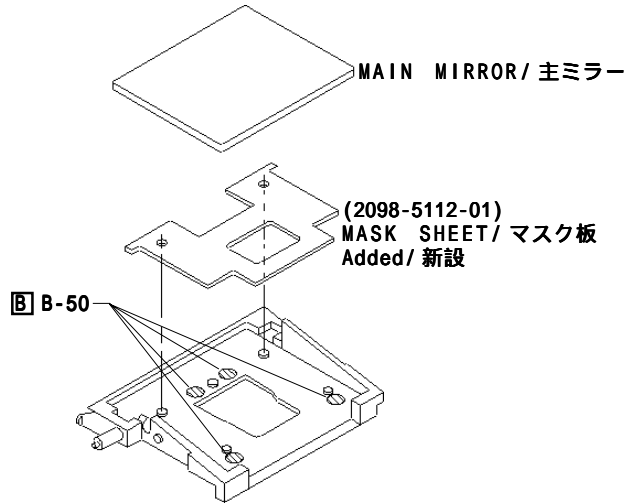
管理No. REF No.	QS FA 2098-P024
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PARTS MODIFICATION LIST

No. 024 Parts List P. 9 仮-692

変更理由 REASON	サービス用部品として供給			共通機種 COMMON MODEL	2098 Series
	Added as a service part				
Previous	-----	- -	- -	(2098-5112-01)	New

MIRROR BOX ASSY
ミラーボックスセット

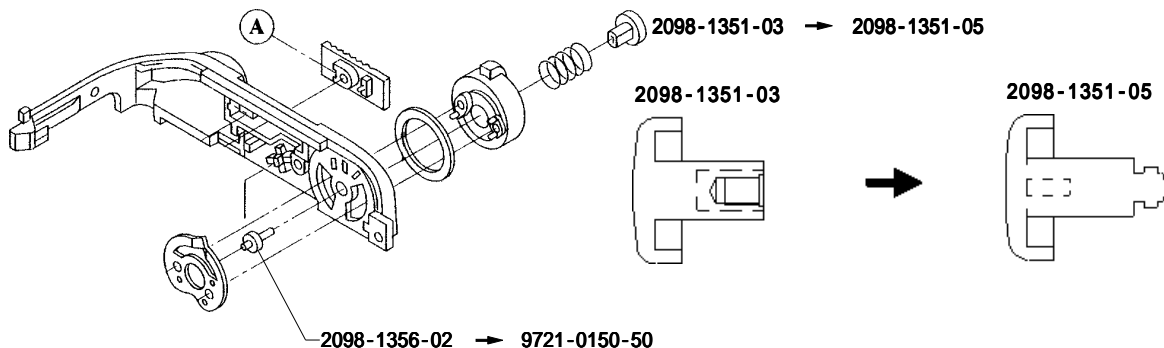


管理No. REF No.	QS FA 2098-P025
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PARTS MODIFICATION LIST

No. 025 Parts List P. 11 2098-629,-630

変更理由 REASON	コストダウン			共通機種 COMMON MODEL	2098 Series
	To cut cost				
Previous	2098-1351-03	×	×	2098-1351-05	New
Previous	2098-1356-02	- -	- -	-----	New
Previous	-----	- -	- -	9721-0150-50	New



Interchangeability as a set/セットでの互換性	Previous	→○	○←	New
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本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 17

管理No. REF No.	QS FA 2098-P026
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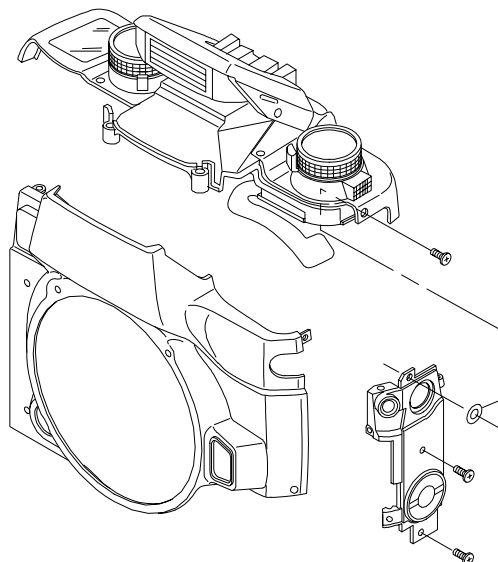
PARTS MODIFICATION LIST

No. 026

Parts List P. 17

仮-706

変更理由 REASON	前カバーと上カバーの段差修正			共通機種 COMMON MODEL	2098-150, -350, -550
	To compemsate difference between Front and Top Covers				
Previous	-----	- -	- -	9791-1735-40	New
Previous	-----	- -	- -	9792-1735-20	New



9791-1735-40 } (0-1)
9792-1735-20 }
WASHER/ ワッシャ
Added/ 追加

Install Top Cover Assy and Insert Washer between Top Cover and Side Cover-B.
上カバーセットを取付け後、上カバーとサイドカバー B の隙間にワッシャを挿入する。

- Add the washer if there is 0.3mm or more difference between Front and Top Covers around film chamber side.
- 巻戻し側の前カバーと上カバーの段差が0.3mmを超えるものに対し、ワッシャを使用する。

管理No. REF No.	QS FA 2098-P027
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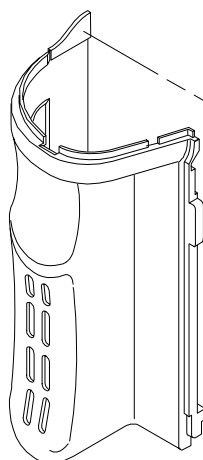
PARTS MODIFICATION LIST

No. 027

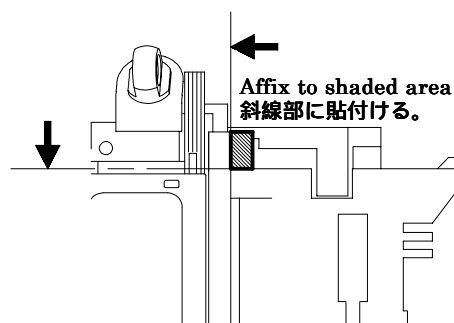
Parts List P. 17

2098-652

変更理由 REASON	グリップゴムの接着力強化			共通機種 COMMON MODEL	2098-150, -350, -550
	To secure ashesion of Grip Rubber				
Previous	-----	- -	- -	9384-2190-60	New



9384-2190-60
(3X5mm)
Added/ 追加



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

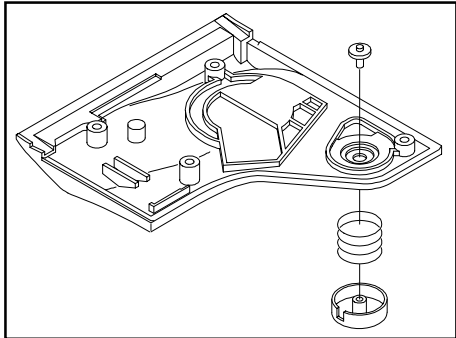
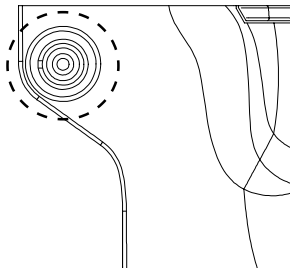
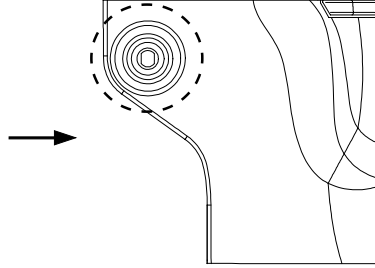
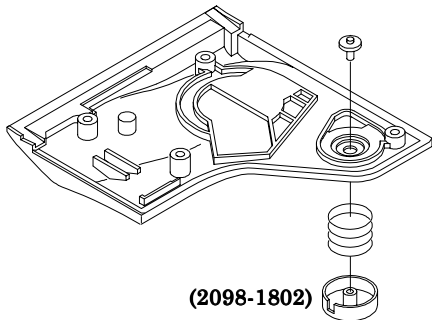
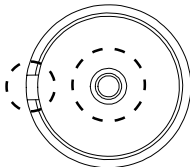
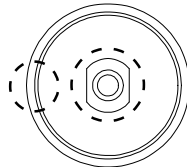
MINOLTA CO.,LTD.

(2098)A 18

管理No.	QS FA 2098-P028
REF No.	

PARTS MODIFICATION LIST

No. 028 Parts List P. 15 2098-654

変更理由 REASON	コストダウン			共通機種 COMMON MODEL	2098 Series	
	To cut cost					
Previous	2098-0182-01			2098-0182-02	New	
<div><div>2098-0182</div><div></div></div> <div><div>2098-0182-01</div><div></div></div> <div><div>2098-0182-02</div><div></div></div>						
Previous	(2098-1802-03)	×	×	(2098-1802-05)	New	
<div><div>(2098-1802)</div><div></div></div> <div><div>(2098-1802-03)</div><div></div></div> <div><div>(2098-1802-05)</div><div></div></div>						
Interchangeability as a set/セットでの互換性		Previous	→○	○←	New	

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P029
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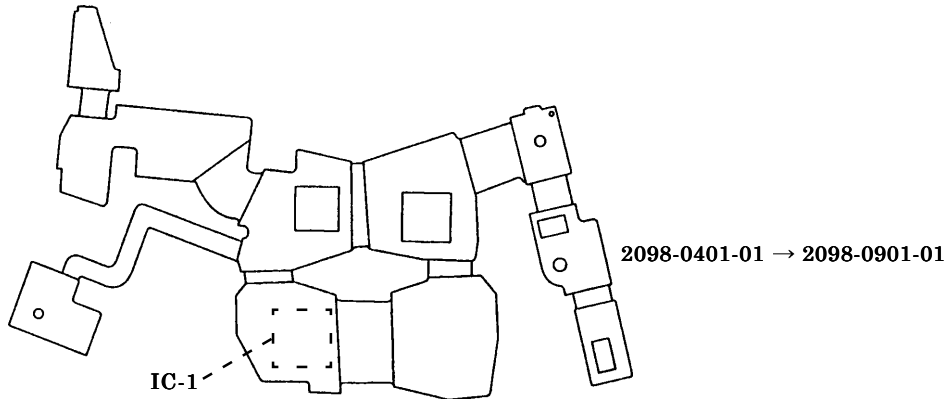
PARTS MODIFICATION LIST

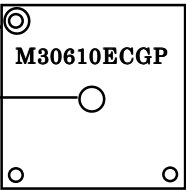
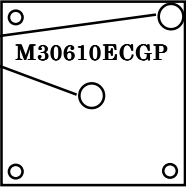
■No. 029

Parts List P. 2

仮-716

変更理由 REASON	仕様変更			共通機種 COMMON MODEL	2098-100, -300, -500
	Specification change				
Previous	2098-0401-01	→○	×←	2098-0901-01	New



	IC-1		
2098-0401-01	Yellow dots 黄マーキング 	98C-4101-01 M30612MA -313GP	98C-4101-02 M30612MA -319GP
2098-0901-01	Yellow dots 黄マーキング 	98C-TTTT-03 M30612MA -335GP	

NOTE: When installing #2098-0901 to normal model (-100/300/500), be sure to set "NORMAL" in Model Set mode with HIT Controller so that camera function is the same as #2098-0401.
(See pg. 58, REPAIR GUIDE)

※ノーマルバージョン(2098-100, -300, -500)でAフレキセット(2098-0901)を使用する場合、必ずモデル設定(修理編P. 58)で“NORMAL”を選択して下さい。

■本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

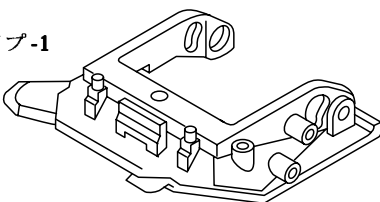
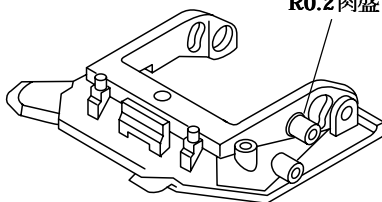
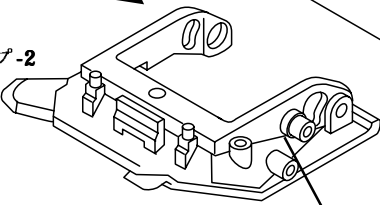
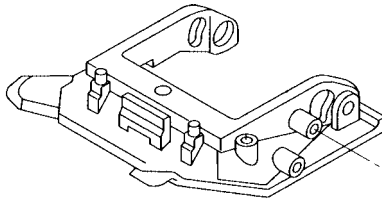

According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 20

管理No. REF No.	QS FA 2098-P030
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PARTS MODIFICATION LIST

No. 030	Parts List P. 12	2098-658,659			
変更理由 REASON	フラッシュアップSP軸の割れ防止			共通機種 COMMON MODEL	2098-Series
	To improve strength of the shaft for flash up SP.				
Previous	2098-1602-04	x	x	2098-1602-06	New
<div><div><p>2098-1602-04</p><p>Type-1/ タイプ-1</p></div><div><p>2098-1602-06</p><p>Padding (R 0.2) R0.2肉盛</p></div><div><p>Type-2/ タイプ-2</p></div><div><p>Apply adhesive to the ring. (Not supplied.) リングを接着 ※サービス非供給</p></div></div>					
Previous	2098-1609-01	x	x	2098-1609-02	New
<div><p>2098-1609-01→2098-1609-02</p></div> <div><p>2098-1609-01 Color: Brown 色 : 茶色</p><p>2098-1609-02 Color: Gray 色 : シルバー</p></div>					
NOTE: TOP COVER ASSY #2098-0319/0930 in spare parts stock will be replaced with the modified type. 上カバーセット(# 2098-1609-01, # 2098-1609-02) は、新タイプ付きに入れ替えます。					
Interchangeability as a set/セットでの互換性			Previous	x	New

■ 本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

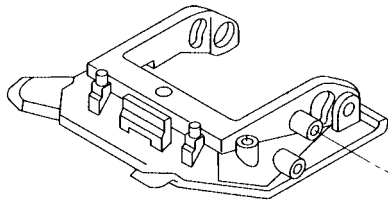
According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No.	QS FA 2098-P031
REF No.	

PARTS MODIFICATION LIST

No. 031 Parts List P. 12 2098-667

変更理由 REASON	フラッシュ作動の改善			共通機種 COMMON MODEL	2098 Series
	To improve flash up/down motion.				
Previous	2098-1609-02		×	2098-1609-03	New
<div><div><p>2098-1609-02 Color:Gray 色：シルバー</p><p>→</p><p>2098-1609-03 Color:Brown 色：茶</p></div><p>2098-1609</p></div>					
・ 2098-1609-03は2098-1609-01と同一部品です。 Type-01 (brown) and Type-03 of #2098-1609 are completely the same.					

■ 本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

REF No. 管理No.	QS FA 2098-P032
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PARTS MODIFICATION LIST

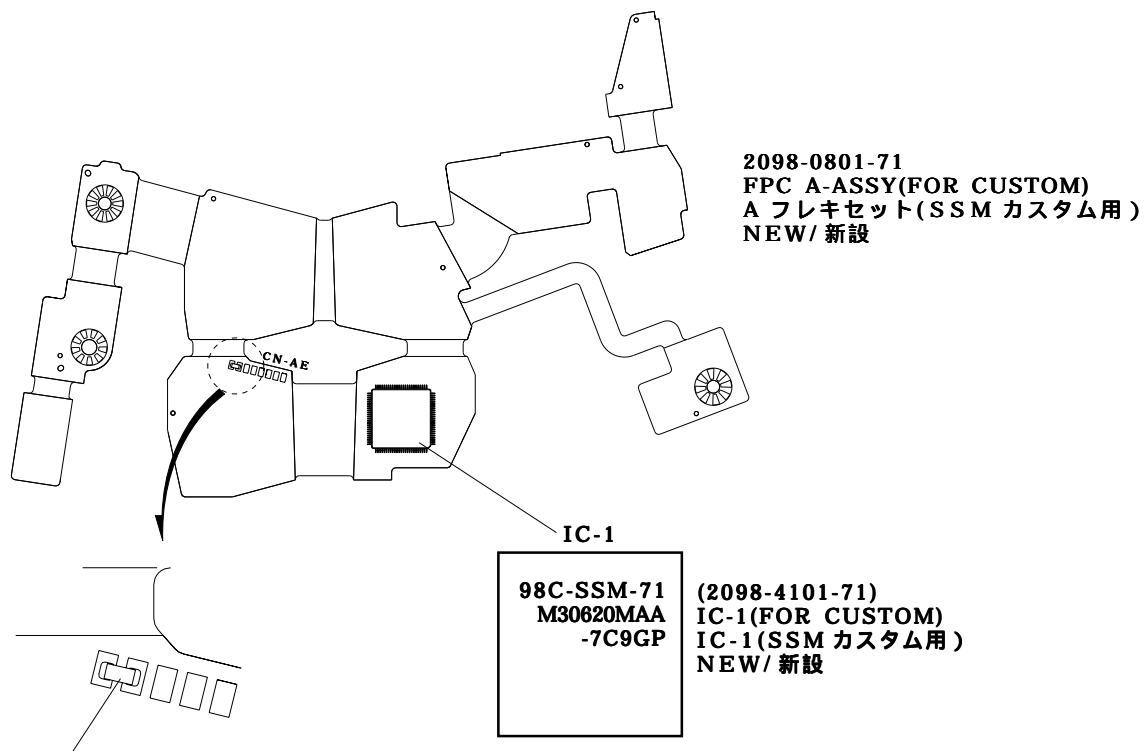
Division 主管部署	Camera CS Division カメラCS部
Valid from 施行年月日	June 16. 2003

Approved by 承認	Verified by 審査	Written by 作成
Tanizaki	Okamoto	Matsui K.Tanaka

Parts List P. 2,17

版 848 SUPPLEMENTARY INFORMATION QS FA 2098-S05J/E

REASON 変更理由	SSMレンズ対応 (カスタムサービス)	COMMON MODEL 共通機種	2098 Series
Previous		- -	2098-0801-71 New
Previous		- -	(2098-4101-71) New
Previous		- -	9432-3326-67 New



After soldering FPC of BL CONTACT HOLDER ASSY(2098-0150-01),
attach REGISTOR(9432-3326-67) between 7 and 8 of CN-AE.
B L 接点ホルダーセット A の半田付後、C N - A E の 間に取り付ける。

NOTE: Set SSM Custom after replacing parts.(Refer to "Supplementary Information QS-FA2098-S05E")
部品交換後カスタム設定を行ってください。(サプリメンタリーインフォメーション QS-FA 2098-S05J 参照)

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List "in Service Manual for effective parts management.

MINOLTA CO.,LTD.

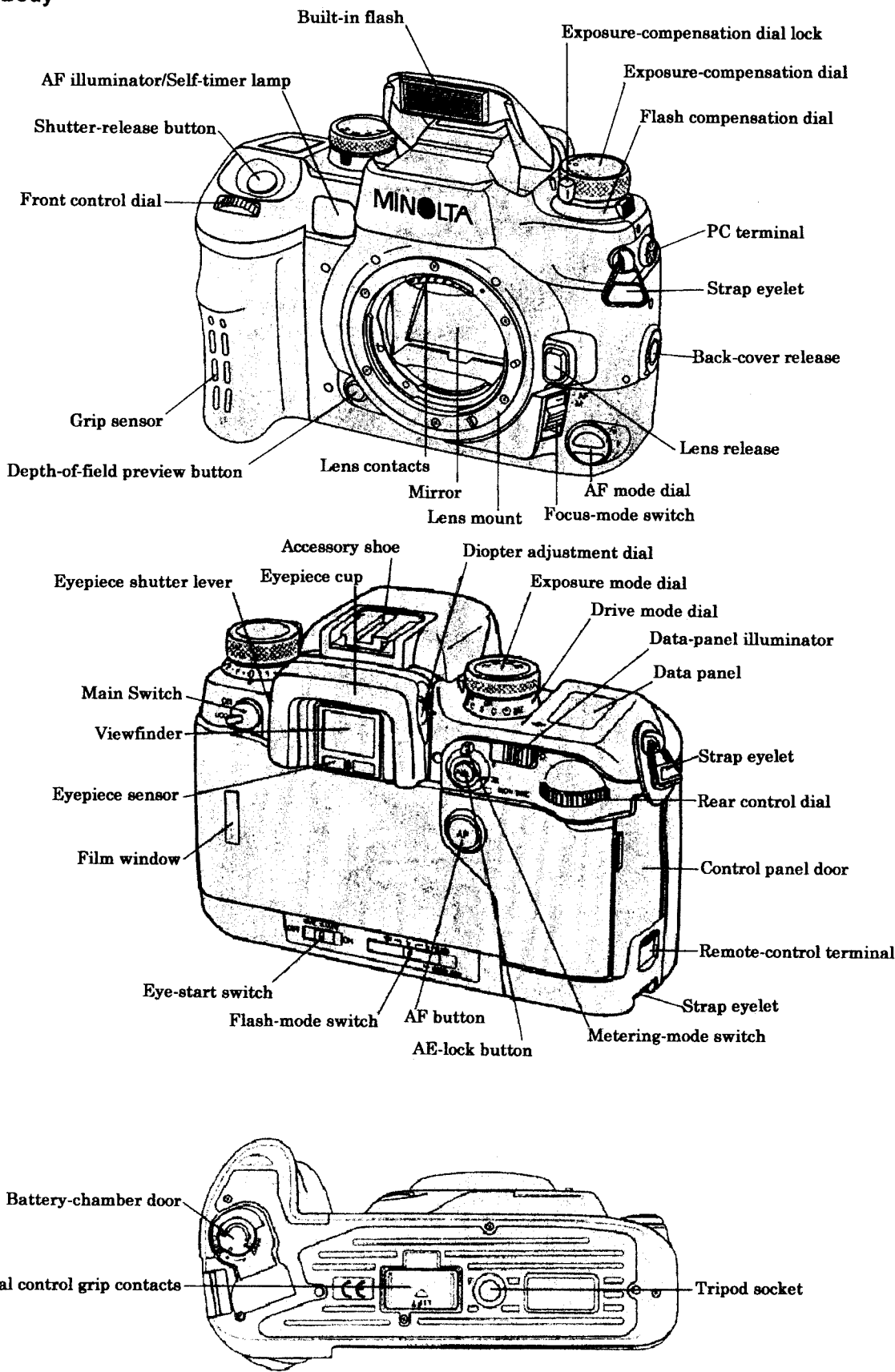
Check List

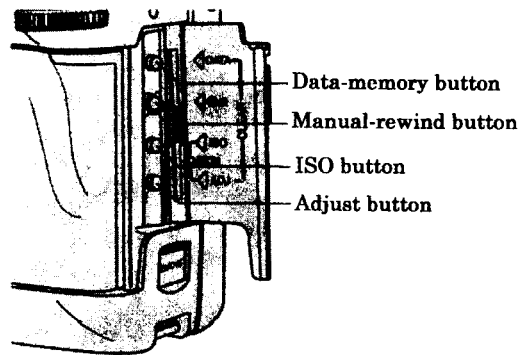
1. This Check List describes the quality of operation warranted to general users. When users inquire about quality or request inspection, refer to this Check List. Use this list also when checking operation after repair.
2. When using this list during shipping or receiving inspection, judge the quality according to the purpose of the inspection, not by directly referring to this level.
3. For individual taste or special usage, some users may not be satisfied with this level of quality and will request a different one. In such cases, adjust the level as requested by them as much as possible.
4. Checking items that are characterized as sensory test are not included. Adjust these items according to product or user's request.

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Name of parts

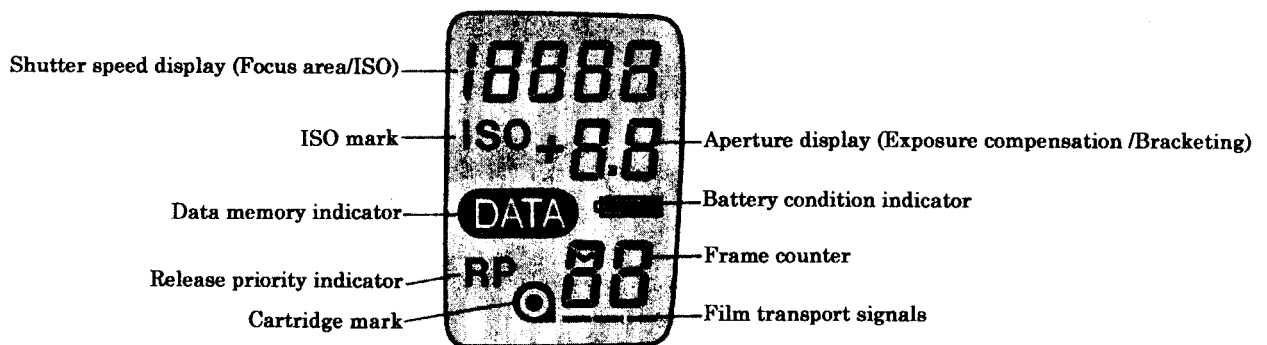
Body





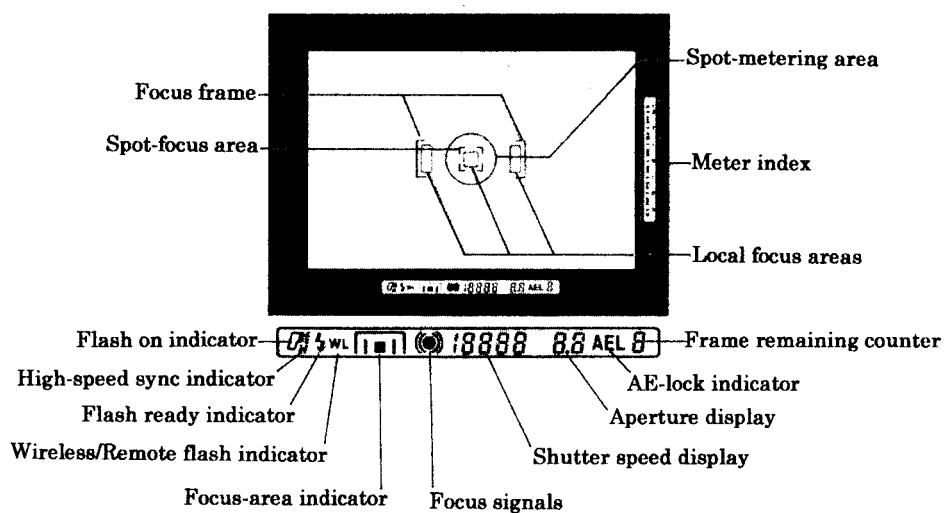
Data panel

Body



CHECK
LIST

Viewfinder



4 (2098)A Initial setting

Battery installation

- Installing batteries will not reset these settings:
Manual ISO setting
Frame counter
Data memory on/off
Customized setting
- Installing batteries resets the lens to;

	AF mode	MF mode
Non xi lens	Set to a specific focus position after infinity-reset	No lens reset and keep MF setting
xi lens	Set to a specific focus position after wide-end reset	Wide-end reset but keep MF setting

Main Switch ON

- Multi-exposure setting is not reset.
- Customized settings are not reset. But if push-type AE lock/off is selected, and Main Switch is slide to ON while AE is locked, AE is unlocked.
- Pressing and holding Adjust Button while sliding Main Switch to ON resets all customized setting to "1".
- Sliding Main Switch OFF and ON during film rewind stops and resumes film rewind.
- Even when film rewind speed is changed from customized setting (CUST12) by pressing Rewind Button during film rewind, sliding main Switch OFF and ON during film rewind stops and resumes film rewind in determined film rewind speed.
- Lens resets to;

	AF mode	MF mode
Non xi lens	Set to a specific focus position after infinity-reset	No lens reset and keep MF setting
xi lens	Set to a specific focus position after wide-end reset	Wide-end reset but keep MF setting

Main Switch OFF

- All displays but frame counter disappear.
- Camera operation continues its sequence until mechanical charge, lens specific position set or wide-end reset, depth-of-preview, or 2-sec-self-timer countdown completes.
- Shutter runs even in bulb shutter setting.
- Film rewind stops mid-way.
- 10-sec-self-timer countdown stops midway.
- Bracketing or flash bracketing reset to the first frame.
- Lens resets to;

	AF mode	MF mode
Non xi lens	Infinity-reset	No lens reset
xi lens	Retracts to the minimum length	

Eye-start Switch

ON

- If CUS_t 7-1 is selected, holding Grip and Viewfinder to eye level starts focusing and metering.
- If CUS_t 7-2 is selected, lifting the viewfinder to eye level starts focusing and metering.
- Always starts continuous AF regardless of AF-Mode Dial.

OFF

- Holding Grip and Viewfinder to eye level does not turn on grip sensor and eye sensor.

S0, S1

- Holding Grip and Viewfinder to eye level (S0) or pressing Shutter-Release Button partway down (S1) starts focusing and metering.
- Metered shutter-speed and aperture appear in on-body and viewfinder Data Panels.
- Focus signal appears in Viewfinder Data Panel.
- In A, S or M mode, metered values are held after S0 or S1 off for the period determined by CUS_t 13.

S2

- Pressing Shutter-Release Button all the way down (S2) releases the shutter and advances the film; unless multi-exposure is set.

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Setting & Displays

Exposure-Mode

- Turning Exposure-Mode Dial selects an exposure mode among; P/A/M/S.
- In P mode and CUS18-2 is selected, turning Front/Rear Control Dial shift metered value;
 - Front Dial: PS mode
 - Rear Dial: PA mode
- The P mode shift is reset by one of the following operations;
 - Re-installing batteries
 - Operating Exposure-Mode Dial
 - Raising built-in flash or turning on external flash
 - No operation for 4 sec. after the above operation.

Flash Mode

- Sliding Flash-Mode Switch selects a flash mode among;
 - Fill-flash
 - Red-eye reduction
 - Rear-flash sync
 - Wireless.
- Raising built-in flash sets to fill-flash mode, lowering built-in flash sets to flash cancel.

Metering mode

- Sliding Metering-Mode Switch selects a metering mode among;
 - 14-segment-honeycomb
 - Center-weighted average
 - Spot.

Focus mode

- Sliding Focus-Mode Switch selects AF or MF mode.
- In MF mode, no manual focus indicator appears in Data panel.

AF mode

- Sliding AF-Mode Dial selects an AF mode among;
 - S: Single shot
 - C: Continuous
 - A: Automatic

Focus frame

- If CUS1 9-1 is selected, pressing and holding AF Button while turning Front-Rear Control Dial selects a focus frame;
[] ↔ □ ____ ↔ _ □ _ ↔ ____ □ ↔ []

Drive Mode

- Turning Drive-Mode Dial selects a drive mode;
 - Single frame advance
 - Continuous (HI: 5.5 or 4.5fps, Lo: 2fps)
 - Self-timer (10 or 2 sec-delay)
 - Multiple exposure
 - Exposure bracketing (Single frame advance)
 - Exposure bracketing (Continuous)

Continuous

- In continuous drive mode, pressing Adjust Button makes “HI” or “Lo” appear in the on-body Data Panel. Turning Front/Rear Control Dial alters the above display.

Self-timer

- In self-timer mode, pressing Adjust Button makes “2” or “10” appear in the on-body Data Panel. Turning Front/Rear Control Dial alters the above display.

Exposure bracketing (single/continuous)

- In either bracket mode, pressing Shutter-Release Button partway down makes “br” appear in the on-body Data Panel.
- In either bracket mode, pressing Adjust Button then turning Front/Rear Control Dial select EV-step and number of bracketing exposures;
 - Front Control Dial: EV-step 0.3 → 0.5 → 0.7 → 1.0
 - Rear Control Dial: Number of exposure 3 → 5 → 7
- Which exposure is taken first can be selected in customized setting CUS11.

Flash bracketing (With built-in flash up or external flash on)

- In flash bracket mode, pressing Shutter-Release Button partway down makes “Fbr” appear in the on-body Data Panel.
- Continuous bracketing is not available even though Drive-Mode Dial points to “C”.
- In flash bracket mode, pressing Adjust Button then turning Front/Rear Control Dial selects EV-step and number of bracketing exposure;
 - Front Control Dial: EV-step 0.3 → 0.5 → 0.7 → 1.0
 - Rear Control Dial: Number of exposure 3 → 5 → 7
- Which exposure is taken first can be selected in customized setting CUS11.

Film-Speed

- Pressing ISO Button then turning Front/Rear Control Dial selects a film speed in 1/3EV-stop increments from ISO 6 to 6400
Automatic setting: ISO 25-5000
- Loading a film with no DX coding will not set ISO automatically. Previous ISO setting is kept.

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Exposure-Compensation Indicator

- Setting Exposure-Compensation Dial to “0”, then pulling and turning it changes stop increments between 1/2EV and 1/3EV.
- Turning Exposure-Compensation Lock to unlock position or white mark, then turning Exposure -Compensation Dial selects compensation amount in the range of;
 - 1/2EV-stop: -3.0 EV to +3.0EV
 - 1/3EV-stop: -2.0EV to +2.0EV
- Compensation result appears in Meter Index in Viewfinder and shutter-speed and aperture shift accordingly.
 - * In M mode, pointers in Meter Index change accordingly.
- Amount of exposure compensation shows in on-body Data Panel according to customized setting CUS_t 21.

Flash compensation

- Turning Flash-Compensation Dial selects amount of flash compensation in 1/2EV-stop increments.
- Compensation range: -3.0EV to +3.0EV

Customized setting

- Pressing Adjust Button and ISO Button simultaneously sets to custom setting mode. Then turning Front Control Dial selects a custom No., and turning Rear Control Dial selects a setting number.
- While pressing and holding Adjust Button, sliding Main Switch to ON makes “CLr” appears and all customized settings are reset to default setting-1.

Customized setting quick reference chart

Function number	Control	Setting number	Action	
			(-100, -300, -500)	(-150, -350, -550)
CUST-1	AF/shutter-release priority	1	AF priority (AFP)	
		2	Release priority (RP)	
CUST-2	Film rewind start	1	Automatic	
		2	Manual	
CUST-3	Film leader	1	Rewound into cartridge	
		2	Left out of rewind cartridge	
		3	Left out of rewind cartridge (can be accessed to film-reloading function)	
CUST-4	DX memory	1	Off	
		2	On	
CUST-5	Shutter-release lock when the film is not loaded	1	Shutter can be released	
		2	Shutter is locked	
CUST-6	Lens focus-hold button	1	Focus hold	
		2	Focus locked at center spot focusing area	
		3	Continuous AF	
CUST-7	Eyepiece sensor	1	On by Main Switch and Grip sensors	
		2	On by Main Switch only.	
CUST-8	Frame counter	1	Normal	
		2	Count-down	
CUST-9	AF area selection	1	Wide or local	
		2	Center only while the AF Button is pressed down	
CUST-10	AE-lock	1	AE is locked while the AE-Lock Button is pressed and held.	
		2	AE is locked and unlocked by each press of AE-Lock Button.	
CUST-11	Exposure bracketing/Flash bracketing sequence	1	Optimum → Under → Over	
		2	Under → Optimum → Over	
CUST-12	Film rewind speed	1	Fast	
		2	Slow or silent	
CUST-13	Metered value (SS & aperture) retaining time in on-body and viewfinder Data panel.	1	5 sec.	
		2	10 sec.	
		3	30 sec.	
CUST-14	Local focus area in viewfinder	1	Always appears for 0.1 sec. at AF Lock	
		2	Always appears for 0.4 sec. at AF Lock	Always appears for 0.6 sec. at AF Lock
		3	Appears only when AF Button is pressed	
CUST-15	Eye-Start Switch	1	Turns eye-start ON or OFF	
		2	Turns dial-lock ON or OFF, eye-start is always ON	
		3	Turns dial-lock ON or OFF, eye-start is always OFF	
CUST-16	The shutter-release lock when the lens unattached	1	Shutter is locked	
		2	Shutter can be released	
CUST-17	AF drive speed	1	Fast (speed priority)	
		2	Slow (silent priority)	
CUST-18	Front (F)/Rear (R) Control Dial function in P/A/S mode	1	P: F/R: No function A: F/R Aperture S: F/R Shutter-speed (SS)	
		2	P: F: PA, R: PS A: F/R: Aperture S: F/R Shutter speed	
		3	P: F: No function, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation	P: F: PA, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation
		4	-----	P: F: PS, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp. compensation
CUST-19	Front & Rear Control Dial operation	1	Normal as set in CUST-18	
		2	Altered as set in CUST-18	
CUST-20	Flash-metering	1	4-segment	
		2	Average	
		3	Spot in selected local focus area	
CUST-21	Exposure compensation display in Data Panel	1	No	
		2	Yes display appears only when the Dial is operated.	
CUST-22	AF illuminator	1	-----	Fires if necessary
		2	-----	Canceled
CUST-23	Front/Rear Control Dial Lock	1	-----	Off
		2	-----	On

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Data memory

- Pressing Memory Button, then turning Front/Rear Control Dial sets data memory mode on/off, or selects a film area.

On \longleftrightarrow rEAD F1 \cdots rEAD F7 \longleftrightarrow OFF \longleftrightarrow On

Storing data

- Pressing Memory Button, then turning Front/Rear Control Dial to select "ON", and pressing any button makes "DATA" appear in on-body Data Panel.
- 7 items can be stored in memory;
 - Shutter speed
 - Aperture
 - Lens focal length
 - Exposure-compensation
 - Metering mode
 - Flash compensation or flash off
 - Exposure mode
- Film area advances for every initial loading unless the film is rewound without single exposure.
- Film area starts from F1 to F7 then returns to F1 to over-write the F1 data.

Before over-writing the data, "ArEA" appears in Data Panel for warning.

Recalling data

- Memorized data can be recalled by following operations;
 - 1) Press Memory Button
 - 2) Turn Front/Rear Control Dial to select "rEAd"
 - 3) Press Adjust Button so that "DATA" blinks.
- Operation of following controls can recall specific data recall;
 - Front Control Dial: Frame number
 - Rear Control Dial: Shutter speed & aperture or Lens focal length & exposure-compensation
 - AE Lock Button: Exposure-mode, Flash Compensation or flash off
- Metering mode indication are as follows;
 - Hony: 14-segment-honeycomb metering
 - Spot: Spot metering
 - AvE: Center-weighted average metering
- "----" appears for no data frame.
- Shutter speed and aperture are the one appear in Data Panel.
- In case of exposure compensation in exposure-bracketing mode, the compensation is made to every bracketing frame.
- In case of flash compensation in flash-bracketing mode, the compensation is made to every bracketing frame.
- In multiple-exposure mode, only the first frame data are stored.

Clearing Data

- Pressing Memory Button and Adjust Button simultaneously makes "DATA" blink and "CLr" appear in Data panel.
- While in condition as above, pressing Memory Button again clears data and "CLr" blinks for 0.5 to 3 sec. Then the display returns to normal.

Customized Functions

Service function-1 (All displays turn on)

- Pressing and holding Rewind Button, installing batteries make all displays appear in on-body and viewfinder Data Panels as well as local-focus area indications. (See page 58, Repair Guide)

Service function-2 (SW check)

- While all displays turn on as above, pressing Rewind Button sets to SW check mode. (See page 56, Trouble-Shooting Chart)

Service function-3 (Err code display)

- Pressing and holding Shutter-Release Button all the way down and Rewind Button simultaneously. Current error code appears in display if any. (See page 7, Trouble-Shooting Chart)

Controls & Operations

Exposure mode

P mode

- By S0 or S1 on, Shutter-Speed and Aperture Displays appear.
- Shutter-speed and Aperture are automatically set.

Ps mode

- By S0 or S1 on, Shutter-Speed and Aperture Displays appear.
- Turning Front Control Dial selects shutter-speed setting.
- If metering changes by S0 or S1 on, the selected shutter-speed is kept and aperture is automatically set.

PA mode

- By S0 or S1 on, Shutter-Speed and Aperture Displays appear.
- Turning Rear Control Dial selects aperture setting.
- If metering changes by S0 or S1 on, the selected aperture is kept and aperture is automatically set.

A mode

- Aperture always appears in Data Panel.
- Turning Front/Rear Control Dial selects aperture setting.
- By S0 or S1 on, Shutter-Speed Display appears according to the aperture setting.

S mode

- Shutter-speed always appears in Data Panel.
- Turning Front/Rear Control Dial selects shutter-speed setting.
- By S0 or S1 on, Shutter-Speed Display appears according to the shutter-speed setting.

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M mode

- Shutter-speed and aperture always appear in Data Panel.
- Turning Front Control Dial selects shutter-speed setting, Rear Control Dial selects aperture setting.
- By S0 or S1 on, Metering Index appears in Viewfinder showing difference between manually set exposure and metered exposure.

Metering mode

14-segment honeycomb

- AE is locked when AF is locked.
- Back-lit compensation is made for back-lit scenes (Main subject is darker than background by 4-steps or more.)
- In AF mode, no back-lit detection.

Center-weighted average

- AE is not locked when AF is locked.
- No back-lit detection.

Spot

- AE is not locked when AF is locked.
- No back-lit detection.
- Metering is available only in the Spot-Metering Area in Viewfinder.

Meter index

- Meter index switches between 1/2EV or 1/3EV increments according to Exposure-Compensation Dial.

Mode	Information	Pointer position	"0" position
P/A/S mode	Exposure compensation	Exposure compensation setting	Metered exposure
P/A/S mode and AE Lock Button is ON	Difference between locked value and metered value	Difference between locked value and value of the spot-metering area.	Exposure value locked by AE Lock Button.(another pointer is always located at "0".)
M mode	Metered manual	Exposure settings made by the user	Metered exposure

Out of metering/control indication

- Following indication appears when the scene is out of metering or control range.
- Indications

Exposure mode	Viewfinder	Data Panel
P	"▲" and "▼"blinks.	Shutter-Speed & Aperture Displays blink
A, PA		Shutter-Speed Display blinks
S, PS		Aperture Display blinks
M		

- Conditions: With lens with open aperture f/1.4 or faster.

Metering mode	Luminance	Luminance
14-segment honeycomb	BV -5 or below	BV 15 or above
Spot	BV -2 or below	BV 15 or above
Center-weighted average	BV -5 or below	BV 15 or above

Flash

- Flash-On Indicator appears in viewfinder when flash charge completes.
- Shutter is locked and Flash-Ready Indicator blinks during flash charge.
- Recycling time (single advance, no red-eye)
3.2 sec (5.6V, 0.6ohm using Power Supply Adapter.)
- Flash-ready Indicator blinks in 2Hz during flash control
- Flash metering system controlled by magnification and focal length

		Magnification			
		Large (Macro area)	Medium large (Portrait area)	Medium small (snapshot area)	Small (Landscape area)
Distance between subject and background	Small	Average metering	Average metering	Average metering	Average metering
	Medium	Average metering	Weighted on subject segment	Balanced between subject segment and surroundings	Average metering
	Large	Average metering	Weighted on subject segment	Weighted on subject segment	-----

- Out-of-control-range indication

Exposure mode	Indication
S mode	Aperture Display blinks
A mode	Shutter-Speed Display blinks for SS slower than; 1/300 (normal flash), 1/60 (wireless) 1/12000 (HSS)

CHECK
LIST**Fill flash**

- Raising built-in flash up or turning on dedicated on-camera flash makes Flash-On Indicator appear in viewfinder and flash always fires.

Wireless flash

- Setting camera to wireless-flash-mode automatically controls the on-camera-flash to wireless mode if it features wireless function. Camera's flash channel is set to the one of the on-camera-flash.
- Pressing AE-Lock Button makes a test burst.
- Wireless-ratio photography is available by pressing Shutter-Release Button while sliding Data-Panel Illuminator to on. (Built-in flash: off-camera flash=1:2)

Red-eye reduction flash

- Flash fires several pre-burst prior to main burst.

High speed sync flash (HSS)

- With 5400HS flash, HSS is available in the shutter speed range from 1/12000 to 1/300 (excluding 1/300)

Setting	HHS		Indications
	P	A/ S/ M	
Bounce	×	×	No distance, HHS indications
With off-camera cable	×	○	No distance indication
On-camera and off camera flashes	○	○	Distance indication for on-camera
Several off camera and on camera flashes	×	○	No distance indication
Several flashes including 5400HS	×	×	HSS is not available. To resume HSS, press flash's button.

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M mode

- Shutter speed faster than 1/300 sec. automatically switches flash to HSS.

S mode

- Shutter speed faster than 1/300 sec. automatically switches flash to HSS.
- Shutter-speed and aperture are controlled 1-stop underexposure for current scene so that optimum exposure is obtained with flash.

A mode

- If shutter speed required for the set aperture is faster than 1/300, flash is switched to HSS.
- Shutter-speed and aperture are controlled 1-stop underexposure for current scene so that optimum exposure is obtained with flash.

P mode

- If shutter speed required for the set aperture is faster than 1/300, flash is switched to HSS.

Rear-flash sync

- Shutter speed 1/60 sec. or slower automatically switches flash to rear-flash sync.
- Rear-flash sync is available with built-in flash, dedicated flashes attached to accessory shoe or PC terminal.
- Rear-flash sync is available with flash connected to PC terminal.
- When 5400HS is attached and rear-flash sync is set, if shutter speed is faster than 1/300 sec, flash is controlled as HSS.

Flash attached to cable

- Wired ratio photography is available.
- In wired ratio photography, shutter speed is set to 1/60 or slower.
- AF illuminator lights.

Film transport

Initial load

- Film speed of the loaded film appears for 5 sec. when initial load completes. Operating any button within the 5 sec. makes the indication disappear.
- When initial load fails, shutter is locked, and film speed display and cartridge mark blinks.
- Initial load does not start while Main Switch is off.

Film advance

- Frame counter increases/decreases for each exposure according to customized setting CUS_t 8.
- When remaining frame is less than 10, it appears in Frame Remaining Counter in viewfinder and decreases accordingly.

Film rewind

- Film automatically/manually starts rewind at the film end according to customized setting CUS_t 2.
- Auto-rewind starts when;
 - DX coded film:
 - 24 or 36 exp.: number of frames are exposed
 - less than 24 exp.: film stretches at the end
 - Non DX coded film:
 - Less than 36 exp.: film stretches at the end
 - 36 exp. or more: 36th frame is exposed
- Number in Frame Counter decreases during film rewind.
- Film quickly/slowly rewinds according to customized setting CUS_t 12.
- Pressing Rewind Button during rewind switches the above setting.
- Sliding Main Switch to OFF during rewind stops the rewind.
- "0" blinks in Frame Counter when film rewind completes.
- Film tip of the rewound film is set according to customized setting CUS_t 3.

Drive mode

Single

- Shutter can be released in AF/Release priority according to customized setting 1.
- Pressing and holding Shutter-Release Button all the way down makes a single exposure.

Continuous

- Pressing and holding Shutter-Release Button all the way down makes continuous exposures.
- High speed

Focus mode	Continuous advance
Manual	5.5fps (4.5fps while data memory to DM-9 is selected)
AF-S (One-shot)	5.5fps (4.5fps while data memory to DM-9 is selected)
AF-C (Continuous)	4.5fps
AF-A (Auto)	4.5fps

- Low speed: 2fps

Self-timer

- Shutter is released with the metered exposure when Shutter-Release Button is pressed.

2-sec. delay

- Shutter is released 2 sec. after Shutter-Release Button is pressed.

10-sec. delay

- Shutter is released 10 sec. after Shutter-Release Button is pressed and Self-timer lamp operates as follows;
Blinks in 2Hz (8sec.) → Blinks in 8 Hz (2sec.) → Shutter-release

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Exposure bracketing

- AE is locked in sequential exposures.
- In continuous AF mode, shutter cannot be released if AF is not confirmed.
- Exposure-compensation is available.
- In M mode, pressing AE-Lock Button for the first exposure continues aperture control for successive exposures.
- Exposure control in bracketing;

Exposure mode	Controls
P	Shutter-speed and aperture changes
S, PS	Aperture changes
A, PA	Shutter-speed changes
M	Shutter-speed changes Aperture changes by pressing Shutter-Release Button while AE-Lock Button is pressed down.

Single bracketing and flash bracketing

- Pressing and holding Shutter-Release Button all the way down makes a single exposure.
- The next number of exposure appears in Data Panel as “brX” or “FbrX”. This indication appears also in viewfinder while S0 is ON.
- Shutter speed and aperture displays don’t appear until all sequential exposures complete.
- Automatic film-rewind-start before the sequence completes does not reset exposure or flash bracketing to the first frame.
- AF mode is not the same through the sequential exposures.
- Bracketing sequence continues even exposure mode is changed. Metered value is locked at the first exposure.

Continuous exposure bracketing

- Pressing and holding Shutter-Release Button all the way down makes continuous exposures up to determined frames.
- Lifting the finger from Shutter-Release Button during continuous exposure quits bracketing sequence mid-way.
- Automatic film-rewind-start-before the sequence completes resets exposure bracketing to the first frame.

Multiple exposure

- In multiple exposure mode, “ME” appears in on-body Data Panel.
- The next number of multiple exposure appears in Data Panel from “M2” to “M9”.
- Frame Counter does not advance/decrease during multiple exposure.
- Film does not advance until Drive Mode Lever turns away.
- If Data Memory Back is attached, the first exposure data is stored in memory.

Focus**AF mode**

- Regardless of AF-Mode Dial position, continuous AF is selected when S0 is on. AF is not locked by S0 on.
- Pressing AF Button locks focus when confirmed.
- Focusing starts by S0 or S1 on and Focus Signal appears in viewfinder;
 - lights: Focus is confirmed and locked
 - ((●)) lights: Focus is confirmed with continuous AF
 - (()) lights: Focus is not confirmed with continuous AF
 - blinks: Focus is not confirmed; subject is low-contrast
 - Nothing: Searching focus point.

Single-shot (S)

- Focus is always locked when confirmed.

Automatic (A)

- Focus is locked when confirmed and the subject is static.
- Focus is not locked when it is confirmed and the subject is dynamic.
- In continuous film advance, predictive continuous AF operates on and after the 2nd frame.

Continuous (C)

- Focus is not locked when confirmed.

MF mode

- Focus signal appears by S0 or S1 ON;
 - lights: Focus is confirmed
 - Nothing: Focus is not confirmed, low-contrast subject

AF Button

- Pressing AF Button on makes a local focus area appear in viewfinder when focus is confirmed. (Not when continuous AF is selected.) Local focus area also appears by S1 on.

“□___”、 “_□_”、 “___□”
- Pressing AF Button starts focusing using a specific local focus area;

CUS9-1: Local focus area selection available by pressing and holding AF Button while turning Front/Rear Control Dial;

...[] ↔ ___□ ↔ _□_ ↔ □___ ↔ []...

CUS9-2: Center focus area only.

In AF mode

- Pressing AF Button locks focus when confirmed.
- When wide focus frame is selected, a local focus area appears when it confirms focus for the period determined by customized setting CUS14.
- Luminance of local focus areas vary according to subject luminance.

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In MF mode

- Pressing AF Button makes focus signal appear in viewfinder when focus is confirmed.

AF illuminator

- In single-shot or automatic AF mode, and when the subject is low-contrast or low-light (BV5.5 or below), AF illuminator lights by S0 or S1 on or by pressing AF Button.
- When dedicated flash is attached, AF illuminator of the flash lights for subject below BV-5. (excludes 1st generation AF flashes)
- AF illuminator does not light if;
Continuous AF mode
Telephoto lens longer than 300mm
Macro lens X1-X3.

AE Lock button

- AE Lock Button operates according to customized setting CUS10.
- Pressing AE Lock Button makes locked shutter-speed and aperture appear in Data Panels for the period determined by customized modification CUS13.
- Exposure compensation is available to the locked exposure.
- "AEL" appears while AE is locked
- Meter index shows difference between locked exposure (0) and the one metered by the spot focusing area. (They don't appear if built-in flash is up.)
- In flash photography, pressing AE Lock Button makes slow-shutter-sync.
- In wireless flash mode, pressing the button makes a test burst.
- In M mode and bracketing photography, pressing the button while shutter release changes aperture setting instead of shutter speed for bracketing.
- In M mode, pressing the button affixes pointers in Meter Index.
- In M mode, pressing and holding the button while turning Front/Rear Control Dial shift shutter speed and aperture settings.
- When recalling data in memory, pressing the button shows exposure mode and flash compensation, and metering mode.
- AE is unlocked when;
 - Main Switch is operated
 - Metering-Mode Switch is operated
 - Built-in flash is up/down
 - Lens is replaced

Data-Panel Illuminator

- Sliding Data-Panel Illuminator lights up the Data-Panel for the period determined by customized setting CUS_t 13. Sliding the illuminator while Data Panel is lit will extend lighting time.
- In wireless flash mode, pressing Shutter-Release Button while sliding and holding Data-Panel Illuminator to on controls flash as ratio photography; built-in flash: off-camera flash = 1 : 2
- Even when CUS_t 5-2 (shutter locks while film is not loaded) is set, pressing Shutter-Release Button while sliding and holding Data-Panel Illuminator makes a shutter-release available.

Depth-of-field Preview Button

- Pressing the button stops down the aperture.
 - Aperture is kept stopped down while the button is pressed and held.
 - Aperture can not be changed while the button is pressed and held.
 - Focus operation stops while the button is pressed and held.
 - Shutter-release is available while the button is pressed and held.
- *If AF priority is selected by CUS_t 1-1, aperture stops down after a focus is confirmed.

Exposure compensation

- In flash photography and when exposure compensation is set, exposures are compensated with flash output as well as shutter speed and aperture combination.
- * Flash distance indication in accessory flash shows shifted distance
- Compensation is observed with;
 - P mode: shutter speed and aperture shift
 - PA mode: Aperture shift
 - PS mode: Shutter speed shift
 - A mode: Aperture shift
 - S mode: Shutter shift
 - M mode: Meter Index shift
- Exposure compensation step in EV

1/2EV	-3.0	-2.5		-2.0	-1.5		-1.0	-0.5	
1/3EV	-3.0	-2.7	-2.3	-2.0	-1.7	-1.3	-1.0	-0.7	-0.3
1/2EV	0.0	0.5		1.0	1.5		2.0	2.5	
1/3EV	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7
1/2EV	3.0								
1/3EV	3.0								

- Exposure compensation step in f-number

1/2EV	1	1.2		1.4	1.7		2	2.4	
1/3EV	1	1.1	1.3	1.4	1.6	1.8	2	2.2	2.5
1/2EV	2.8	3.5		4	4.5		5.6	6.7	
1/3EV	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1
1/2EV	8	9.5		11	13		16	19	
1/3EV	8	9	10	11	13	14	16	18	20
1/2EV	22	27		32	38		45	54	
1/3EV	22	25	29	32	36	40	45	51	57
1/2EV	64								
1/3EV	64								

20 (2098)A

- Exposure compensation step in shutter speed

1/2EV	30"	20"		15"	10"		8"	6"	
1/3EV	30"	25"	20"	15"	13"	10"	8"	6"	5"
1/2EV	4"	3"		2"	1.5"		1"	0.7"	
1/3EV	4"	3.2"	2.5"	2"	1.6"	1.3"	1"	0.8"	0.6"
1/2EV	0.5"	3		4	6		8	10	
1/3EV	0.5"	0.4"	3	4	5	6	8	10	13
1/2EV	15	20		30	45		60	90	
1/3EV	15	20	25	30	40	50	60	80	100
1/2EV	125	200		250	350		500	750	
1/3EV	125	160	200	250	500	400		640	800
1/2EV	1000	1500		2000	3000		4000	6000	
1/3EV	1000	1250	1600	2000	2500	3200	4000	5000	6400
1/2EV	8000	12000							
1/3EV	8000	10000	12000						

Flash compensation

- Flash compensation is available
- Compensation can be observed in data panel of an accessory flash.
- Meter Index is not changed
- Shutter-speed and aperture will not change.
- Flash bracket is made with compensation.

Other settings

Mid-roll reload (CUST 3-3)

- After rewinding a film at mid-roll, reloading the film and exposing to successive frames are available in following procedure;
 - Set to CUST 3-3.
 - Reload the film so that "1" appears in Frame Counter.
 - Press and hold Adjust Button for 3 sec. or more.
 - "1" starts blinking in Frame Counter.
 - Turn Front/Rear Control Dial to desired number of frames.
 - Press Adjust Button. Film advances to the set number of frame.

Shutter lock without film with lens

- If film is not loaded while lens is attached, shutter lock warning appears;
 - "0" starts blinking in Frame Counter of on-body and viewfinder Data Panels.
- Shutter-release is available without film unless CUST 5-1 is set when;
 - Back-cover is open
 - Data-Panel Illuminator is slid and held to on.

Exposure compensation with Rear Control Dial (CUST 18-3)

- If CUST 18-3 is selected, exposure compensation is available with Rear Control Dial when exposure mode is P, A, or S, and Exposure-Compensation Dial is set to "0".

Manual shift

- In M mode, after shutter speed and aperture are determined, pressing AE Lock Button while turning Front/Rear Control Dial can shift shutter-speed and aperture settings.
- If CUST 10-2 is selected, pressing AE Lock Button and turning Front/Rear Control Dial can shift shutter-speed and aperture settings. Pressing AE Lock Button again resumes the operation.

Focal-length indication for xi lenses

- Pulling zoom ring toward camera while S0 is on makes focal length indication appear for 5 sec. in on-body and viewfinder Data Panels.
- Zooming the lens while the focal length appears extends indication time for another 5 sec.
- Zooming the lens while the focal length appears changes indication accordingly.

Diopter Adjustment Dial

- Diopter can be adjusted within the range from -3 to +1.
- Default position is around -1.

PC Terminal

- Positive and negative-tip polarity flash can be used.

Remote-Control Terminal

- The cover shuts completely.

22 (2098)A

Standard

Exposure

Manual shutter speed

- (See page39, Repair Guide.)

SS	Period (ms)	Tolerance (ms)	Allowable range	Exposure variation
1/12000	0.086	0.055~0.135	Within 0.45EV	Difference between Max. and Min. value among range A, B, and C: Within $\pm 0.75\text{EV}$ Difference between range A & B, C & C, and B & C: $+0.55\text{EV}$ to -0.30EV
1/8000	0.122	0.083~0.179		
1/4000	0.244	0.179~0.334		
1/2000	0.488	0.370~0.644	Within 0.30EV	
1/1000	0.977	0.740~1.289		
1/500	1.95	1.590~2.400		
1/250	3.91	3.170~4.810		
1/200	5.00	3.800~6.170		
1/125	7.81	6.350~9.620		
1/60	15.60	12.70~19.20		
1/30	31.30	29.20~33.50		
1/15	62.50	58.30~70.00		
1/8	125.00	117.00~134.00		
1/4	250.00	233.00~268.00		
1/2	500.00	467.00~539.00		

X-sync time lag

- (See page 39, Repair Guide) •

Shutter speed	Item	Allowance
1/300 (1-60)*	X-sync delay time	0.35ms or longer
	From X on to 2 nd curtain appearance	1.14ms or longer (3.5ms or longer)

* Figures in brackets () are for rear-flash sync.

Auto

- AE level: with 50/1.7 lens, ISO 100, K-value 1.3

(See page 38 , Repair Guide) •

Exposure mode	Metering mode	Luminance	Allowance
P	14-segment honey comb	EV15	Within $0 \pm 1.0 \text{ EV}$
		EV12	
		EV10	
		EV6	

Flash level

- Flash level: with 50/1.7 lens, ISO 100 (See page 40 , Repair Guide) •

$f/2.8+0.85\text{EV} - f/4+0.85 \text{ EV}$

Film transport

Initial load

- Required time with 5.8V. 0.6ohm using Power Supply Adapter, with film Kodak Gold 100, 24-exp.

0.6 sec. or faster

Film advance

- Required time with 5.8V. 0.6ohm using Power Supply Adapter, with film Kodak Gold 100, 24-exp.

High speed: 5.5 fps (or 4.5 fps for continuous AF)

Low speed (silent): 2 fps

Film rewind

- Required time with 5.8V. 0.6ohm using Power Supply Adapter, with film Kodak Gold 100, 24-exp.

High speed: within 6 sec.

Flash recycling time

- Recycling time: with 5.8V. 0.6ohm using Power Supply Adapter

About 3.2 sec.

Current leak

- With 5.8V. 0.6ohm using Power Supply Adapter


Condition	Allowance
At Main Switch LOCK	30 μ A or less
At Main Switch ON	50 μ A or less


BC check level

- With 1.1ohm using Power Supply Adapter (See page 53, Repair Guide.)


4.75V to 4.95V

- Battery condition indicator appears in 4-step.

 Full-battery symbol

 Low-battery symbol

 Blinking low-battery symbol

 Blinking low-battery symbol appears alone and the shutter locks.

Auto power off (APO)

- About 10 min. after Grip Sw. is on while S0 is off, eye-sensor stops.
- About 4 min. after exclusively S0 on, it turns off.
- About 4 min. after AF Button is pressed and held, AF Button Sw. turns off
- With xi lens, about 3 min. and 30 sec. after PZ ring Sw is on, it turns off
- With xi lens, about 1min. and 30 sec. after PF ring Sw is on, it turns off
- With xi lens, about 2 minutes and after Ring Sw is on, it turns off
- About 3 minutes after lens is attached not securely, current leak stops.

Item	APO operates after about
Grip Sw.on	10 min.
S0 on	4 min.
AF Button on	4 min.
PZ Sw. on	3min.30 sec.
PF Sw. on	1min.30sec.
Ring Sw. on	2 min.
AF coupler (Lens is not attached correctly)	3 min.

Body Back

- (See page 36, Repair Guide.)

44.7 \pm 0.015mm (44.685 to 44.715mm)

■ Adjustments & Checks after repair

■ After making replacement or repair of the following items, check or adjust as required in the table.

☆ : Necessary check ★ : Necessary adjustment

Parts Item	Mirror box		Shutter Assy	FPC-A Assy		FPC-B Assy	DC/DC Converter Assy
	Removed	Replaced	Removed	Replaced		Removed	Replaced
				—	Data Copy		
Body Back	☆	★	☆	☆	☆	☆	
Viewfinder Back	☆	★	☆	☆	☆	☆	
Field of View	★	★	★			★	
AF Area LED Position	★	★	★			★	
1/8000 SS		☆	★	★			
Manual SS		☆	★	★			
SPC Position		★		★	★		
AE		☆	☆	★	★		
Aperture Preset		★		★			
Flash SPC Level		★		★			
Flash Level		★		★			
Pre-Flash Level				★			
Wireless Flash Level				★			
Frame Position				★			
AF	☆	★	☆	★	☆	★	
B.C. Lock Voltage				★	★		★
Model selection				★(*1)	★(*1)		

*1 Always necessary only when replaced with #2098-0901.

Parts Item	Flash PCB Assy	Winding Baseplate Assy	AF Motor Baseplate Assy	Aperture Baseplate Assy	Flash Assy	Penta-Prism Assy	Eyepiece Lens Holder Assy
	Replaced	Replaced	Removed	Replaced	Replaced	Removed	Removed
Body Back			☆	☆			
Viewfinder Back			☆	☆		★	
Field of View			★	★		★	
AF Area LED Position			★	★		★	
1/8000 SS							
Manual SS							
SPC Position							★
AE						★	★
Aperture Preset				★			
Flash SPC Level	★						
Flash Level	★				★		
Pre-Flash Level	★				★		
Wireless Flash Level	★				★		
Frame Position		★					
AF			★	☆		☆	
B.C. Lock Voltage							
Model selection							

■ Default FPC-A #0401 setting

- Flash charge inhibited
- Erratic display in Data Panel.

※Flash level adjustment (P. 49) will reset these settings. If the flash level adjustment doesn't reset these settings, check for troubles other than FPC-A Assy.

■ About Data Copy; Adjustment data (P. 59)

- Data Copy of adjustment data enables you to skip some adjustment/check items after FPC-A Assy #0401 replacement. The data can be transferred from the original FPC-A Assy to the newly installed one.
- Data Copy is available even when the camera is inoperative for any reason except for;
 - Faulty IC-1 (Defective element, or poor soldering)
 - Trouble in power supply line (in Main FPC Assy)
 - Signal transmit failure (Such as disconnection or insufficient contact).

■ About Data Copy; Photographic data (P. 60)

- Data Copy of photographic data enables you to transfer data in memory from original FPC-A Assy to the newly installed one. The Data Copy of photographic data requires DM-9 #8789 and SmartMedia Card.
- Photographic data items can be copied;
 - All areas of Memory
 - Customized setting
 - Adjust setting
 - Manual ISO setting
- *No adjustment data, accumulated number of shutter-release, or error code can be copied.
- Data Copy is available even when the camera is inoperative for any reason except for;
 - Faulty IC-1 (Defective element, or poor soldering)
 - Trouble in power supply line (in Main FPC Assy)
 - Signal transmit failure (Such as disconnection or insufficient contact).

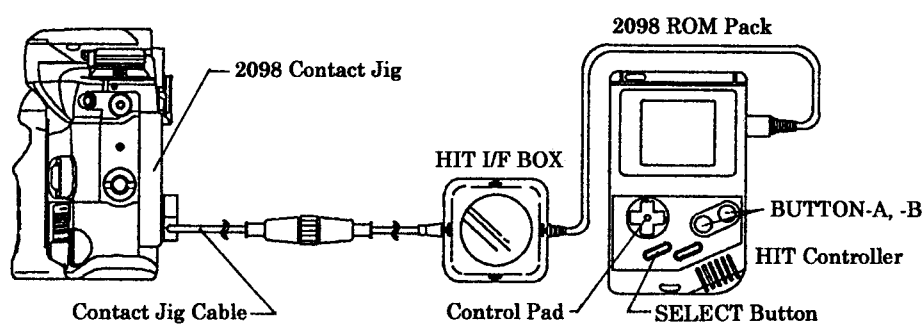
■ Preparation before adjustment-1 (HIT system setup)

■ Set up and basic operation

※Before attaching 2098 Contact Jig to or detaching from the camera, be sure to remove power supply from the camera and turn off HIT Controller. (In case of making a Data Copy of adjustment data, keep the controller activated.)

1. Attach Contact Jig to the camera so that the probes of the jig properly make contact with the check lands. (Fig. 1)
2. Set up the equipment as in Fig. 1
3. Power the camera, then turn on the camera and HIT Controller. Main menu will appear in HIT Controller display. (Fig. 2)
4. Select an item with Control Pad. The selected item appear in a black box. Then press SELECT Button to enter.

■ Fig. 1



■ Fig. 2

2098 ADJ. PROGRAM
BC-LOCK ADJ.
AE ADJ.
SS ADJ.
PRETRIGGER ADJ.
FLASH ADJ.
AF ADJ.
FRAME ADJ.
ASSIST MODE

■ Adjustment/Check items available with 2098 ROM PACK

<Main Menu>

BC-LOCK ADJ. (P. 53)

AE ADJ.

AE ADJ. (P. 46)

AE CHECK (P. 46)

SPC ADJ. (P. 45)

SS ADJ. (P. 44)

PRETRIGGER ADJ. (P. 47)

FLASH ADJ.

FL-SPC LEVEL ADJ. (P. 48)

FL-SPC LEVEL CHECK (P. 48)

FLASH LEVEL ADJ. (P. 49)

FLASH LEVEL CHECK (P. 49)

PREFIRE ADJ. (P. 50)

W-LESSFIRE ADJ. (P. 51)

AF ADJ.

AREA ADJ. (P. 55)

PITCH, YAW ADJ. (P. 56)

EZ ADJ. (P. 57)

EZ CHECK (P. 57)

FRAME ADJ. (P. 52)

ASSIST MODE (P. 58)

MODEL SET (P. 58)

DATA COPY (P. 59)

TROUBLE CODE (P. 7, Trouble-shooting)

SW. CHECK (P. 6, Trouble-shooting)

FLASH CHARGE ON/OFF (P. 3)

ONE PUSH AF (P. 1-2, Supplementary Info.)

FOCUS LED ADJ. (P. 5, Supplementary Info.)

■ Body Back Adjustment

- Equipment required
- Body Back Gauge
 - Flat Plate A
 - Dial Gauge

■ Adjustment

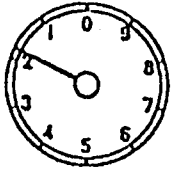
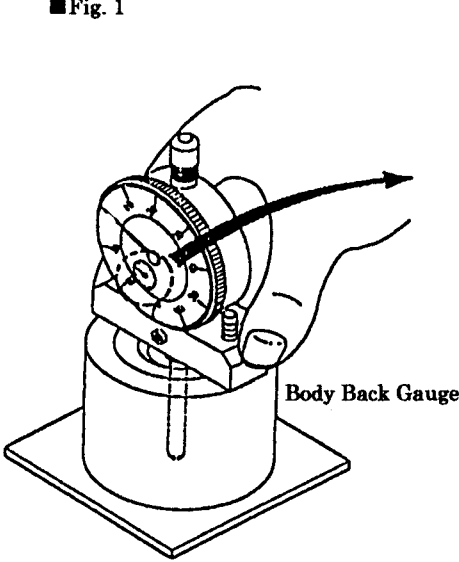
1. Set Dial Gauge as in Fig. 1.
 2. Measure distance between guide rail and Lens Mount surface as in Fig. 2.
 3. Check that the reading meets the standard.
If the reading is out of standard, adjust as follows.
 - Smaller than 44.685: Install washers beneath Bayonet Mount.
 - Larger than 44.715: Replace Lens Mount with #2072-1010-81, and install or remove washers.
- ※The flange of #2072-1010-81 is 0.1mm thinner than that of #2072-1010-02.

Washer

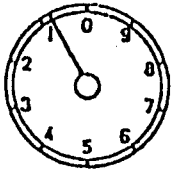
Parts	2005-1061-81	2005-1062-81	2005-1063-81
Height (mm)	0.02	0.05	0.10

Standard 44.700+/-0.015

■ Fig. 1

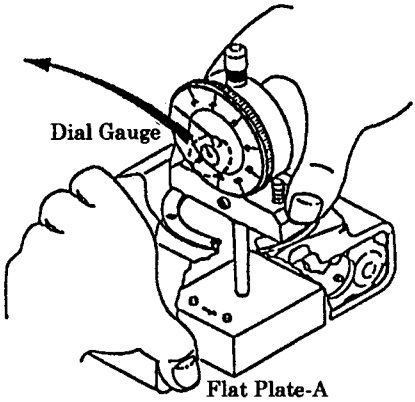


43.70mm



44.70mm

■ Fig. 2



■ Viewfinder Back Adjustment

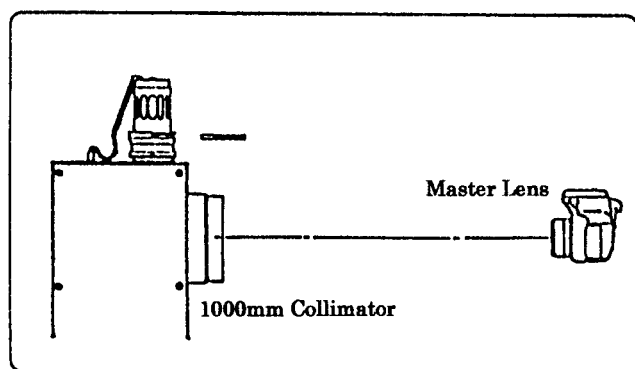
■ Equipment required

1000mm Collimator
Master Lens
Hexagon Wrench (1.5)

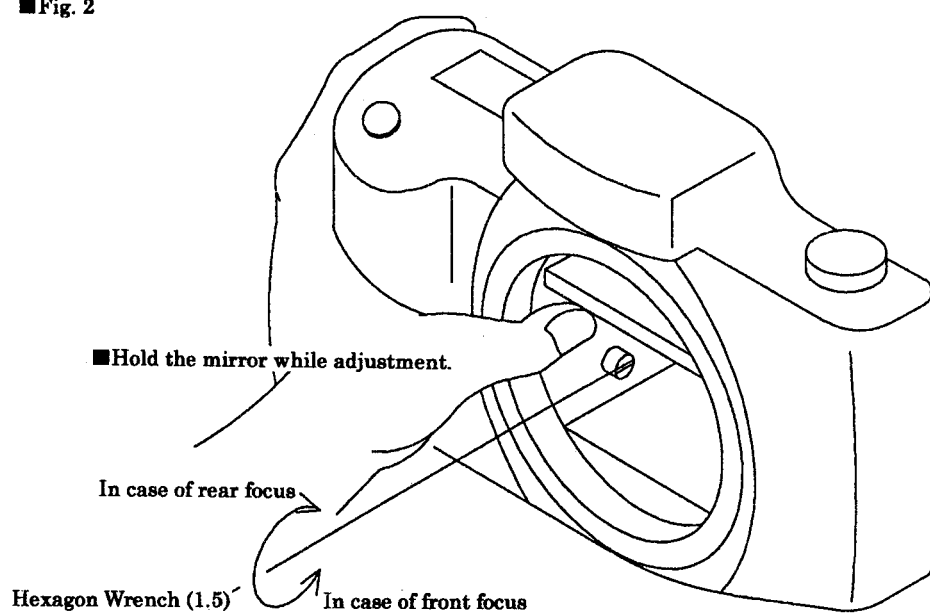
■ Adjustment

1. Set the camera as in Fig. 1 so that the chart is at the center of viewfinder. Set Master Lens to infinity (∞) as in Fig. 1.
2. Check that the chart is in focus. If not, remove the lens and adjust Mirror Stopper position as in Fig. 2.
3. Release the shutter several times and check that the chart is in focus at infinity (∞).

■ Fig. 1



■ Fig. 2



■ AE Level Check

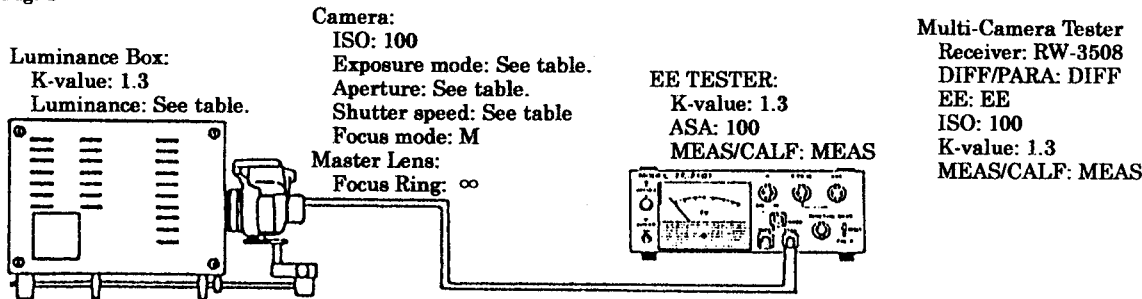
■ Equipment required

Luminance Box, EE Tester
OR Multi-Camera Tester
Master Lens

■ Check

1. Set the equipment as in Fig. 1.
2. Set luminance and camera setting according to the table below. Release the shutter for each setting from step-1 to -8, and check that the reading is within the tolerance.

■ Fig. 1



Step	Luminance *	Exposure mode	SS (ms)	Aperture	Tolerance
1	EV6 (EV5)	A	_____	F5.6 (F8)	0±1.0EV
2	EV10 (EV11)				
3	EV15 (EV15)				
4	EV6 (EV5)	P	_____	_____	
5	EV10 (EV11)				
6	EV15 (EV15)				
7	EV10 (EV11)	S	1/125	_____	
8			1/30		

*Apply value in brackets () for Luminance Box MODEL L-222, L-223.

■ Aperture Control Check

■ Equipment required

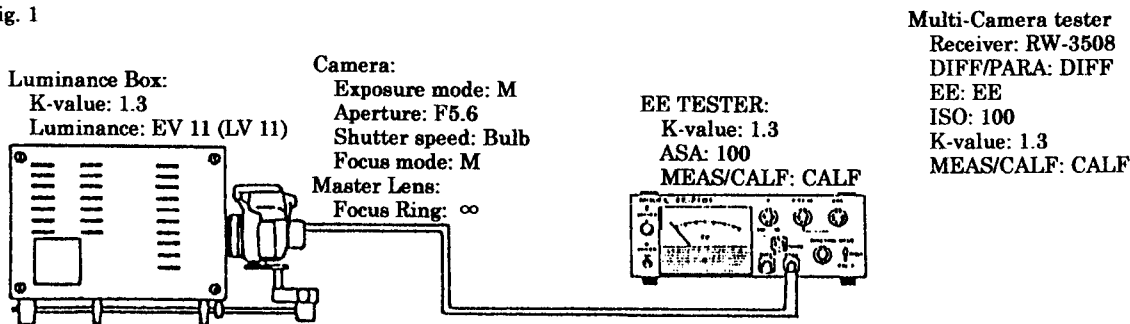
Luminance Box, EE Tester
OR Multi-Camera Tester
Master Lens

■ Check

1. Set the equipment as in Fig. 1
2. Release the shutter and check that the reading is within standard (0±0.3EV)
※Reading may be above/below this range depending on the lens' aperture tolerance.

Standard 0±0.3EV

■ Fig. 1



■ Manual SS & X-sync. Time-Lag Check

■ Equipment required

Shutter Tester
Sync.Cord

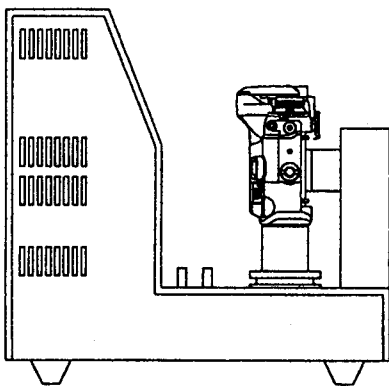
■ Manual SS Check

1. Set the equipment as in Fig. 1.
2. Release the shutter at each shutter speed, and check that the reading meets the table-1 below.

■ X Sync. Time-Lag Check

1. Set up the equipment as in Fig. 2. Set the shutter speed to 1/200.
2. Release the shutter and check that the reading meets the standard in table-2.

■ Fig. 1



■ Fig. 2

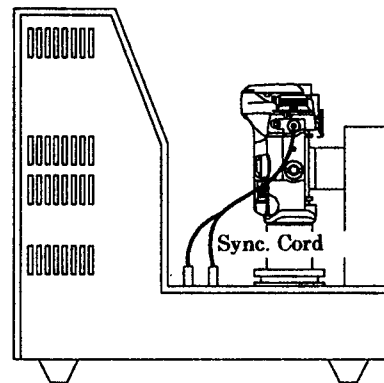


Table-1

SS (ms)	Standard at Range B (ms)	Tolerance at Range B (ms)	Unevenness of exposure
1/12000	0.086	0.055-0.135	Check difference between Max. and Min. reading with 1/12000 only. Reading of A, B, and C range should be in lined combination of Table-1 in page 43.
1/8000	0.122	0.083-0.179	
1/4000	0.244	0.179-0.334	
1/2000	0.488	0.370-0.664	
1/1000	0.977	0.740-1.289	
1/125	7.81	6.350-9.620	
1/2	500	467-536	

Table-2

SS (ms)	Item	Tolerance (ms)
1/300 (1/60)*	X-Sync. Delay time	0.35 or more
	From X-contact ON to rear curtain appearance	1.14 or more (3.5 or more)

* Apply value in brackets () for rear curtain sync.

■ Flash Level Check using strobe tester

■ Equipment required

Strobe Tester

Master Lens

Xi series FLASH (PROGRAM/MAXXUM)

Reflection paper

Film (Kodacolor Gold 100 exposed in a room for more than 1 day)

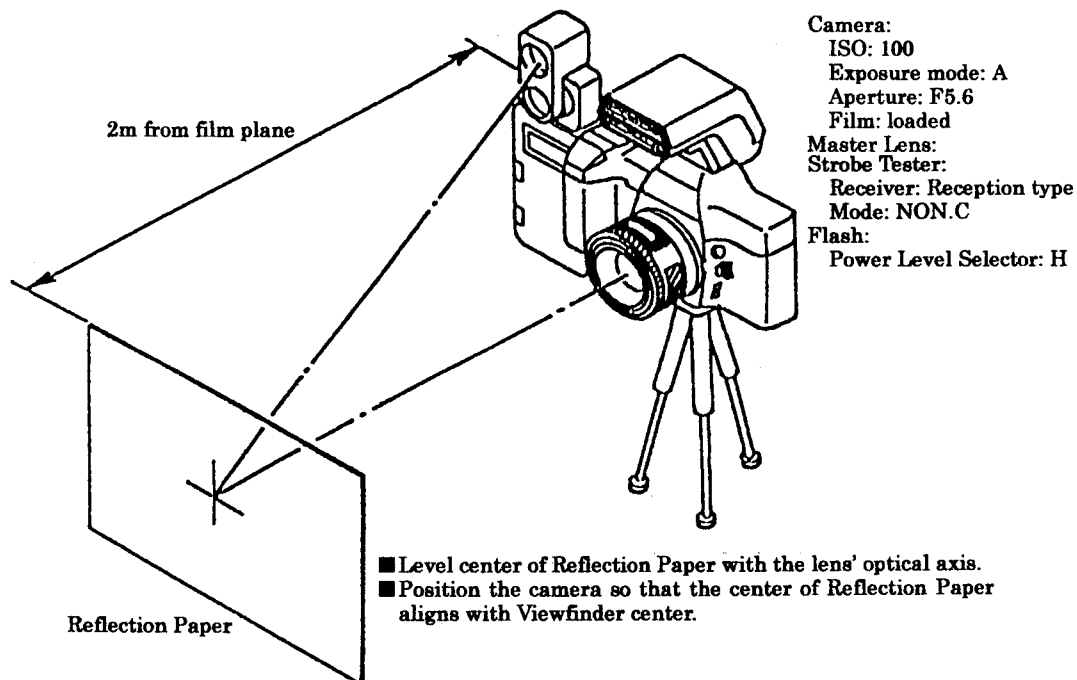
■ Check

* Perform in a dark room.

1. Set the equipment as in Fig. 1.
2. Turn the flash on and check that the flash ready signal glows.
3. Hold Strobe Tester beside the camera so that its viewfinder center aligns with that of Reflection Paper. (Fig. 1)
4. Press Strobe Tester's measuring button to set to stand-by; "NON.C" blinks. Then release the shutter.
5. Check that the reading is within standard.

Standard: $f/2.8+0.85EV - f/4 +0.85EV$

■ Fig. 1



Field of View Adjustment

* Check with Front Cover removed.

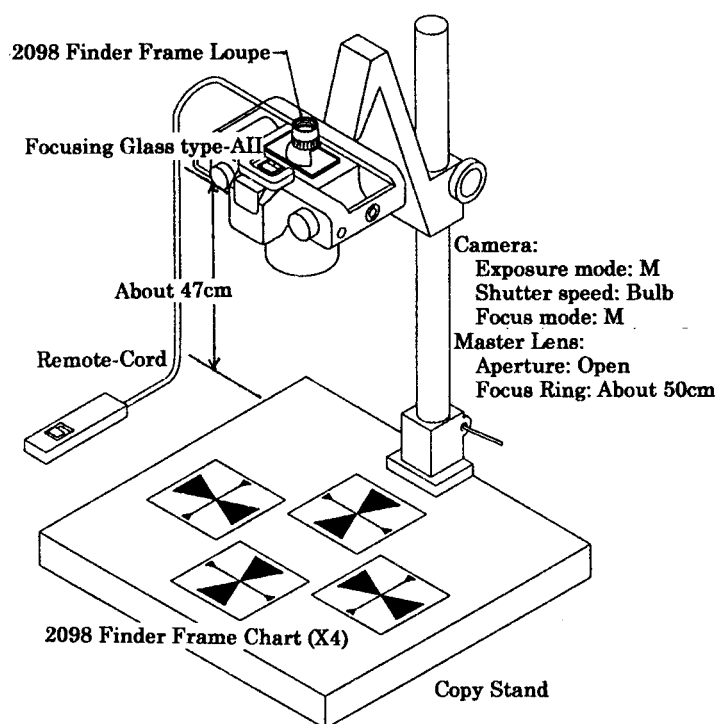
Equipment required

2098 Finder Frame Screen
2098 Finder Frame Loupe
2098 Finder Frame Chart (X4)
Focusing Glass type-A II
Copy Stand
Remote-Cord RC1000
Master Lens

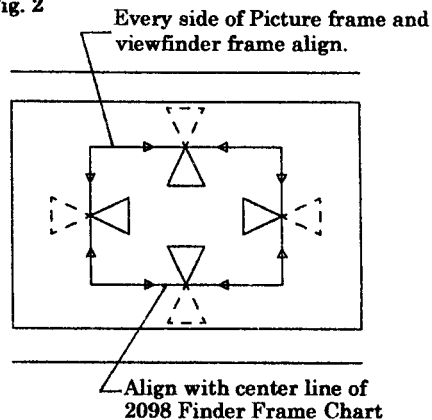
Adjustment

1. Replace Focusing Screen with 2098 Finder Frame Screen.
2. Set up the equipment as in Fig. 1.
3. Attach Focusing Glass type-A II and 2098 Finder Frame Loupe to picture frame. And keep shutter open at "bulb" with Remote Cord.
4. Looking through 2098 Finder Frame Loupe, align 4 of each 2098 Finder Frame Chart with every side of picture frame. (Fig. 2)
5. Release the shutter.
6. Looking through the viewfinder, adjust 3 screws (Fig. 3) so that every side of viewfinder frame align with 2098 Finder Frame Chart (X4).
7. Repeat from step-3 to step-6 until picture frame and viewfinder frame align.
8. Apply B-60 to adjusted screws. (Fig. 3)
9. Replace 2098 Finder Frame Screen with original Focusing Screen.

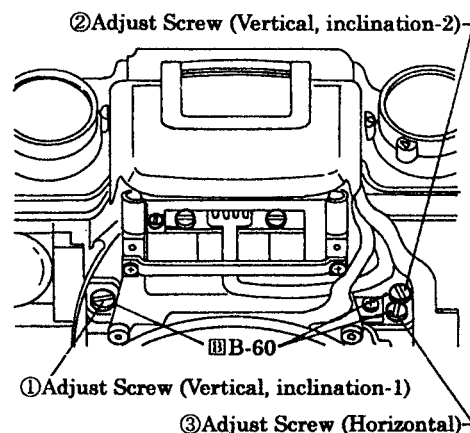
■ Fig. 1



■ Fig. 2



■ Fig. 3



Focus Area LED Check & Adjustment

*Perform check with complete camera. But remove Front Cover for adjustment.

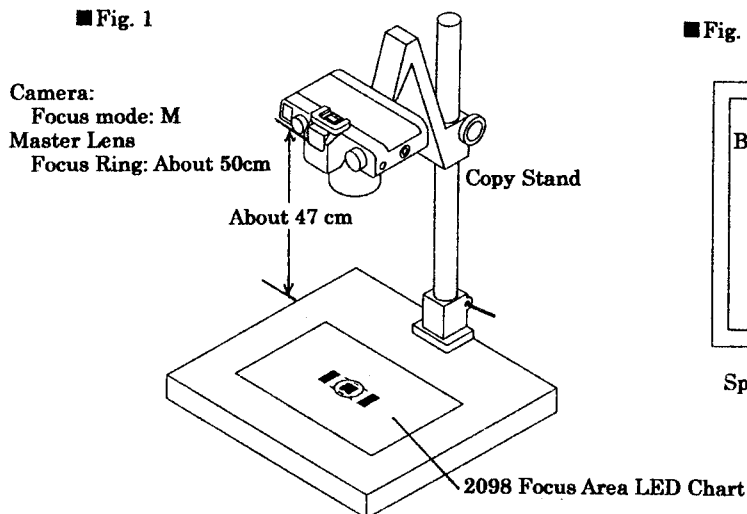
Equipment required

2098 Focus Area LED Chart
Master Lens
Copy Stand

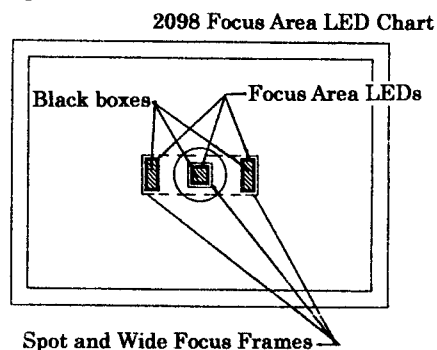
Check

1. Set up the equipment as in Fig. 1.
 2. Looking through viewfinder, align spot and wide focus frames with frames on 2098 Focus Area LED Chart. (Fig. 2)
 3. Pressing and holding AF Button, turn Front Control Dial so that all Focus Area LEDs are on.
 4. Keep pressing and holding AF Button, check that all LEDs light in position of black box in the chart.
- * If not, perform adjustment below.

■ Fig. 1



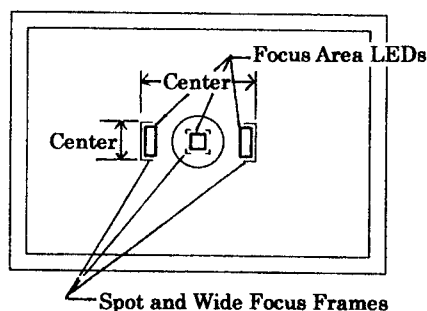
■ Fig. 2



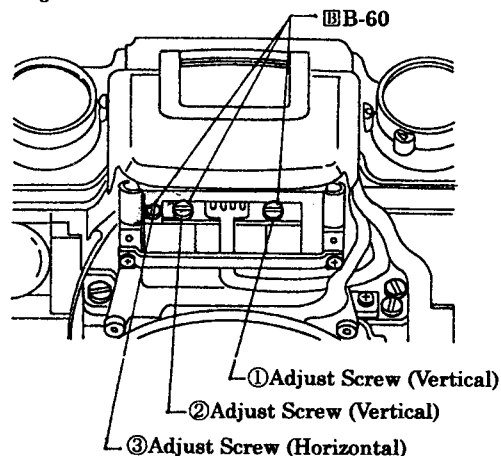
Adjustment

1. Turn all LEDs and LCD displays on;
Slide Main Switch to ON. Pressing and holding Manual-Rewind Button, insert batteries.
(To cancel all segments on, re-install the batteries.)
2. Looking through viewfinder, adjust 3 screws (Fig. 4) so that all sets of Focus Area LEDs are in center of spot and wide focus frames.
3. Apply B-60 to the screws. (Fig. 4).

■ Fig. 3



■ Fig. 4



1/12000 SS Check & Adjustment

- * Before adjustment, remove external parts including Top Cover Assy. And temporarily install Bottom Cover Assy and Shutter-Button Cover Assy. Instead of temporarily installing Shutter-Button Cover, using Remote-Cord is available.
- * After completing this adjustment, always perform Manual Set SS Adjustment (pg. 44).

Equipment required

- Shutter Tester
- Hexagon Bar Wrench
- Remote Cord RC-1000

Check

1. Set up the equipment as in Fig. 1. And set shutter speed to 1/12000 sec.
2. Release the shutter and check that the reading at range A, B and C are in lined combination as in table below. * If not, adjust as below.

Adjustment

3. Remove external parts including Top Cover Assy. And temporarily install Bottom Cover Assy.
 4. Adjust 2C-Adjust Screw with Hexagon Bar Wrench (Fig. 1) so that the reading are in correct combination.
- * Do not check the reading with the bar wrench attached to the screw. Wrong reading may be obtained.

Fig. 1 *After removing Top Cover Assy, exposure mode is in "M mode".

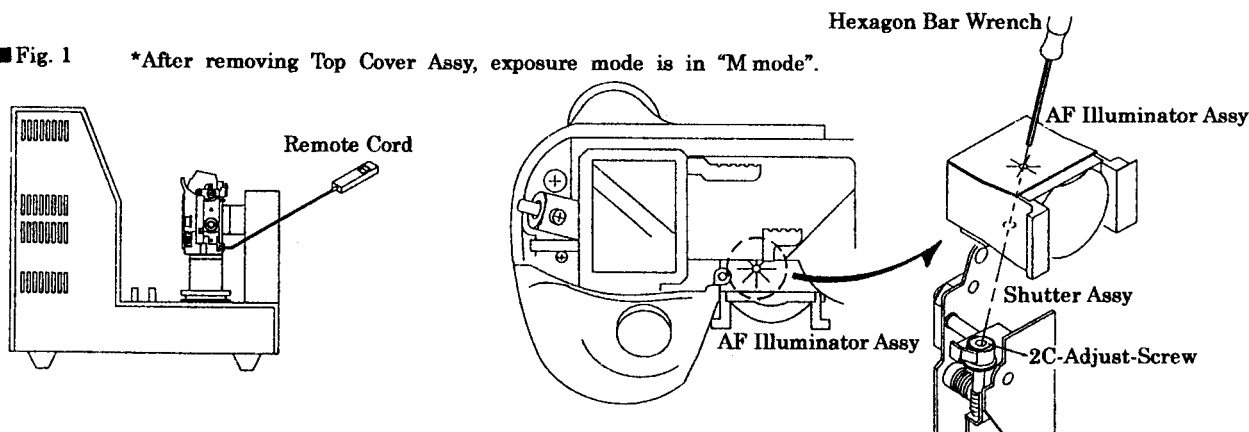


Table-1

A Range	B Range	C Range
0.074－0.097	0.045－0.050	0.024－0.046
0.078－0.104	0.050－0.055	0.028－0.053
0.082－0.111	0.055－0.060	0.032－0.060
0.086－0.118	0.060－0.065	0.036－0.067
0.090－0.125	0.065－0.070	0.040－0.075
0.094－0.132	0.070－0.075	0.044－0.082
0.098－0.139	0.075－0.080	0.048－0.089
0.102－0.146	0.080－0.085	0.052－0.096
0.106－0.153	0.085－0.090	0.056－0.103
0.110－0.160	0.090－0.095	0.060－0.110
0.114－0.167	0.095－0.100	0.064－0.117
0.118－0.174	0.100－0.105	0.068－0.124
0.122－0.181	0.105－0.110	0.072－0.131
0.126－0.188	0.110－0.115	0.076－0.138
0.130－0.195	0.115－0.120	0.080－0.145
0.134－0.202	0.120－0.125	0.084－0.152
0.138－0.209	0.125－0.130	0.088－0.159
0.142－0.216	0.130－0.135	0.092－0.166
0.146－0.223	0.135－0.140	0.096－0.173
0.150－0.230	0.140－0.145	0.100－0.180

■ Manual Set SS Adjustment

* 1/12000 SS Adjustment (pg. 43) should have been completed.

■ Equipment required

Shutter Tester
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact jig Cable
HIT I/F Box

■ Check

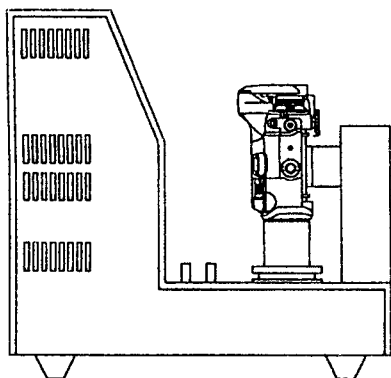
1. Set up the equipment as in Fig. 1.
2. Set shutter speed to 1/12000.
3. Release the shutter several times and calculate average of readings at B-Range.
* If the result is out of standard, perform adjustment below.

■ Adjustment

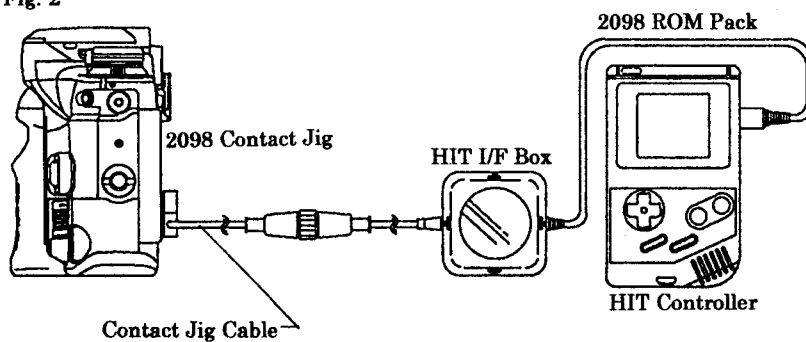
1. Set up the equipment as in Fig. 2.
2. Select "SS ADJ." from the main menu and press SELECT Button.
3. Select "86" using Control Pad.
4. Set the average (μs) obtained at check-step-3 using Control Pad and Button-A/-B, then press SELECT Button.
• In ± 2 stop; Press Control Pad while pressing and holding Button-A.
• In ± 10 stop: Press Control Pad while pressing and holding Button-B.
5. Press Shutter-Release Button partway down. "COMPLETE" appears when adjustment is completed.
6. Press SELECT Button to return to the main menu.

Standard: 0.055 - 0.135

■ Fig. 1



■ Fig. 2



■ SPC Position Adjustment

* Before adjustment, remove external parts including Top Cover Assy. And temporarily install Shutter-Button Cover Assy. Instead of temporarily installing Shutter-Button Cover, using Remote-Cord is available.

* After completing this adjustment, always perform AE Adjustment (pg. 46)

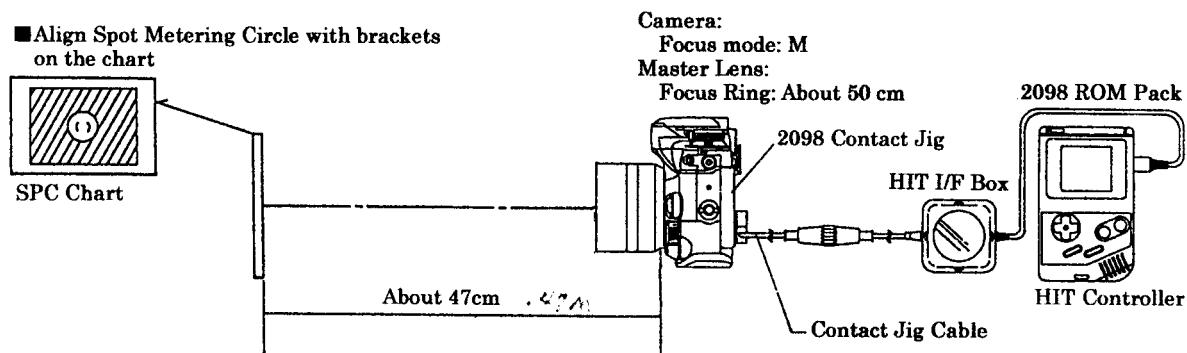
■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
2098 Power Supply Adapter
DC Power Supply
Remote Cord RC-1000
SPC Chart

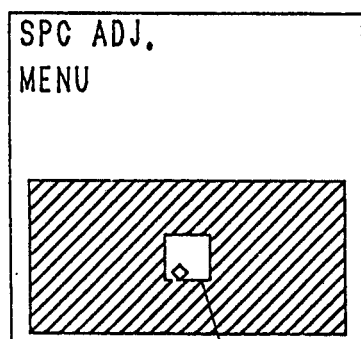
■ Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "AE ADJ." from main menu and press SELECT Button.
3. Select "SPC ADJ." from AE adjustment menu and press SELECT Button.
4. Press S1 on with Remote Cord.
5. Adjust eccentric screw (Fig. 3) so that display "◇" comes inside the white area in the display.
(Fig. 2) Apply B-60 when adjustment is completed.
6. Press SELECT Button to return to AE adjustment menu.

■ Fig. 1

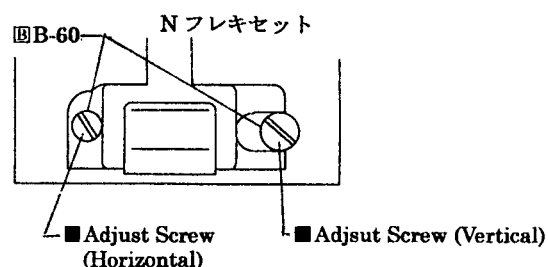


■ Fig. 2



Set the mark inside the white box.

■ Fig. 3



■ AE Check & Adjustment

*SPC Position Adjustment should have been completed. (pg. 45)

■ Equipment required

Luminance Box
OR Multi-Camera Tester
Master Lens
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

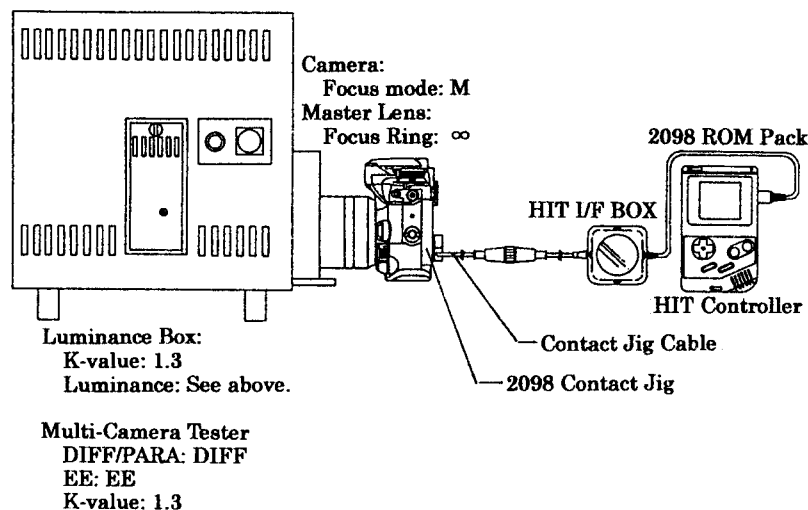
■ Check

1. Set up the equipment as in Fig. 1.
2. Select "AE ADJ." from main menu and press SELECT Button.
3. Select "AE CHECK" from AE adjustment menu and press SELECT Button.
4. Press Shutter-Release Button partway down.
5. Check that value in each cell is within $\pm 0.3\text{EV}$ to the set luminance. (Fig. 2)
*Check with EV6, EV10, and EV15.
6. Press SELECT Button to return to AE adjustment menu.

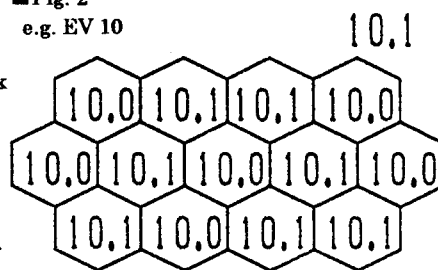
■ Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "AE ADJ." from main menu and press SELECT Button.
3. Select "AE ADJ." from AE Adjustment menu and press SELECT Button.
4. Set luminance to EV6, then press SELECT Button.
5. Press Shutter-Release Button partway down.
6. Set luminance to EV15, then press SELECT Button.
7. Press Shutter-Release Button partway down. "COMPLETE" appears when adjustment is complete.
8. Press SELECT Button. Displays are replaced with AE adjustment menu.

■ Fig. 1



■ Fig. 2
e.g. EV 10



Aperture Preset Check & Adjustment

Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
HIT I/O Tester
Preset Signal Adapter

Check

1. Setup the equipment as in Fig. 1. And set camera to "M mode" and "Bulb".
2. Press Reset Button on HIT I/O Tester so that "00" appears in the display.
3. Set aperture according to Table-1, and release the shutter.

Check that reading in the HIT I/O Tester is within the standard. (Reading appears while shutter is pressed down.)

Fig. 1

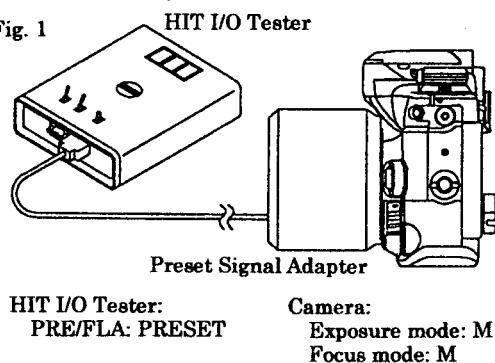


Table-1

Aperture	Standard
f/2.4	15-26
f/4	47-57
f/5.6	69-78
f/11	Ab-bb
f/22	EE-FE

NOTE: These indications look similar in HIT I/O Tester display

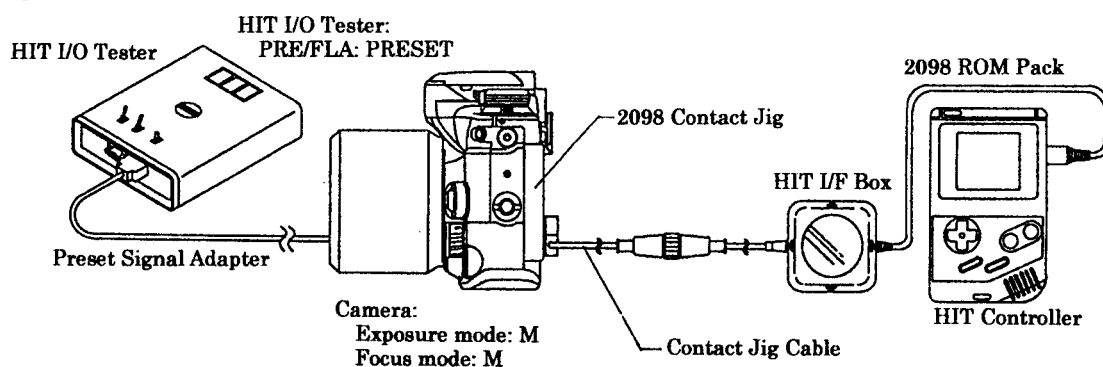
* Figures in HIT I/O Tester is in hexadecimal notation.

□ 6
□ b

Adjustment

1. Set up the equipment as in Fig. 2.
2. Select "PRETRIGGER ADJ." from the main menu and press SELECT Button.
3. Press SELECT Button again.
4. Press Reset Button on HIT I/O Tester so that "00" appears in the display.
5. Press Shutter Release Button partway down. (S1 ON)
* Shutter is released automatically for 3 times. Obtain average reading of HIT I/O Tester.
6. Input the average to HIT Controller;
• First digit: Press and hold Button-A while pressing Control Pad
• Second digit: Press and hold Button-B while pressing Control Pad.
7. Press SELECT Button.
8. Repeat from step-4 to -7 for each aperture automatically set to f/1.7, f/2.8, f/4, f/13, f/22.
9. Press Shutter-Release Button partway down. "COMPLETE" appears when adjustment is complete.
10. Press SELECT Button to return to the main menu.

Fig. 2



Flash SPC Level Check & Adjustment

Equipment required

Luminance Box
 OR Multi-Camera Tester
 HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 Master Lens
 Reflection Paper

Check

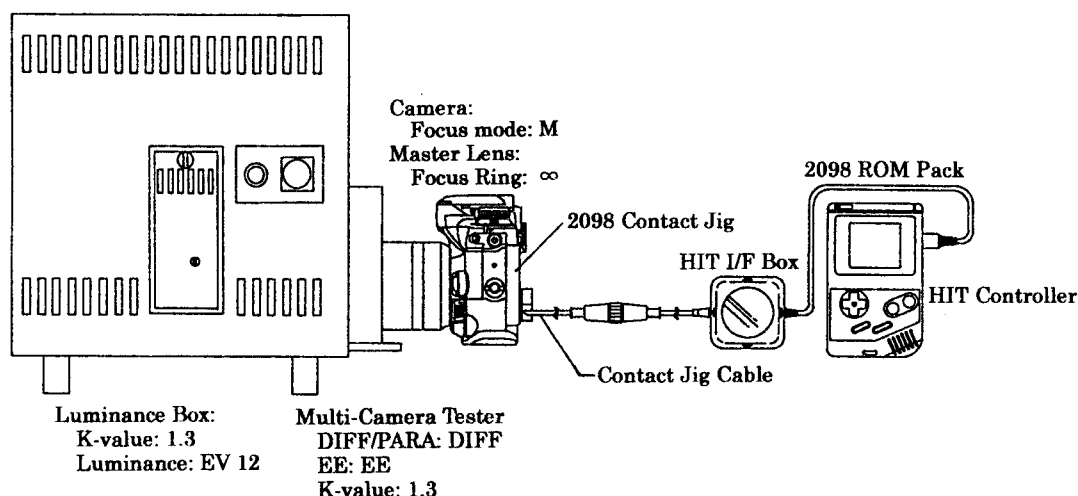
1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ" from main menu and press SELECT Button.
3. Select "FL SPC LEVEL CHECK" from flash adjustment menu and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
 * Check that the result is within the standard. (0-1.32 EV).
6. Press SELECT Button. Displays are replaced with the flash adjustment menu.

Standard 0-1.32 EV

Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "FL SPC LEVEL ADJ." from flash adjustment menu, and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
6. Press SELECT Button. Displays are replaced with flash adjustment menu.

Fig. 1



Flash Level Check & Adjustment

Equipment required

Luminance Box
OR Multi-Camera Tester
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
Master Lens
Reflection Paper

Check

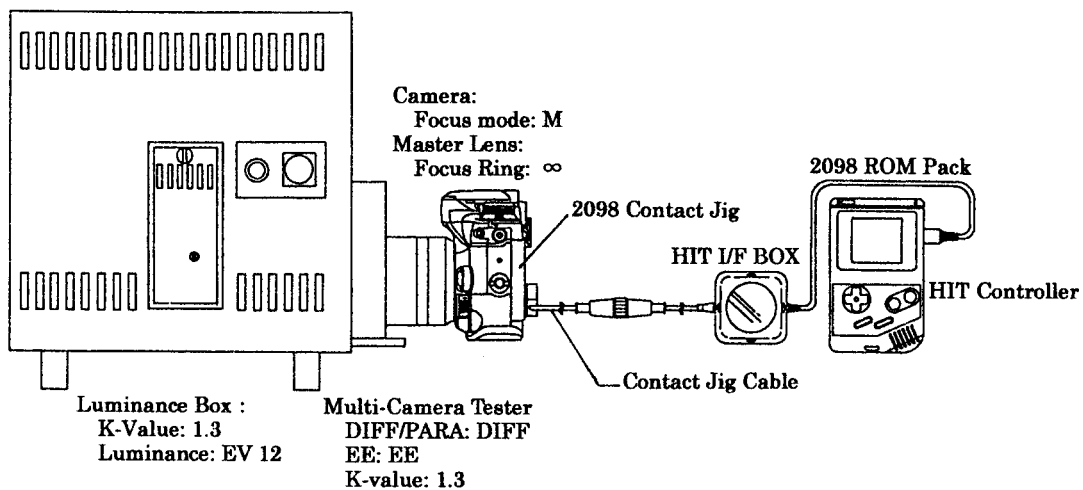
1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "FLASH LEVEL CHECK" from flash adjustment menu and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
* Check that the result is within the standard. ($\pm 0.4\text{EV}$).
6. Press SELECT Button. Displays are replaced with the flash adjustment menu.

Standard $\pm 0.4\text{EV}$

Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "FLASH LEVEL ADJ." from flash adjustment menu, and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
6. Press SELECT Button. Displays are replaced with flash adjustment menu.

Fig. 1



■ Pre-Flash Level Adjustment

■ Equipment required

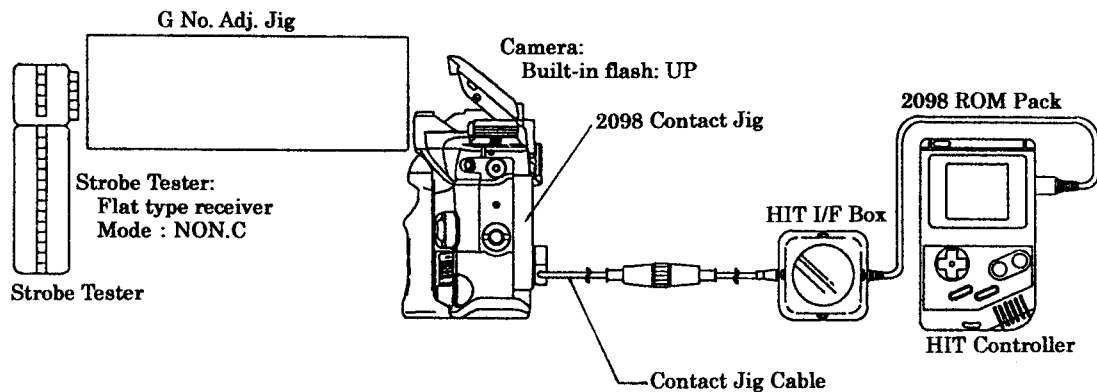
HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 Strobe Tester
 Guide No. Adj. Jig

■ Adjustment

1. Setup the equipment as in Fig. 1
2. Select "FLASH LEVEL ADJ." from main menu and press SELECT Button.
3. Select "PREFIRE ADJ." from flash adjustment menu, and press SELECT Button.
4. Press Shutter-Release Button partway down. (S1 on)
5. Select "FIRE TIME", and press SELECT Button.
6. Press Shutter-Release Button partway down. Read Strobe Tester when flash fires.
 * If reading is out of standard, perform adjustment below.
7. Adjust flash level (firing time: μ S) using Button-A or -B, then press SELECT Button.
 • To increase flash level: Press Button-A.
 • To decrease flash level: Press Button-B.
8. Repeat from step-5 to -7 until reading meets the standard range.
9. Select "MENU", and press SELECT Button. Displays are replaced with flash adjustment menu.

Allowable range $f/8+0.2$ - $f/11+0.2$

■ Fig. 1



■ Wireless Flash Level Adjustment

■ Equipment required

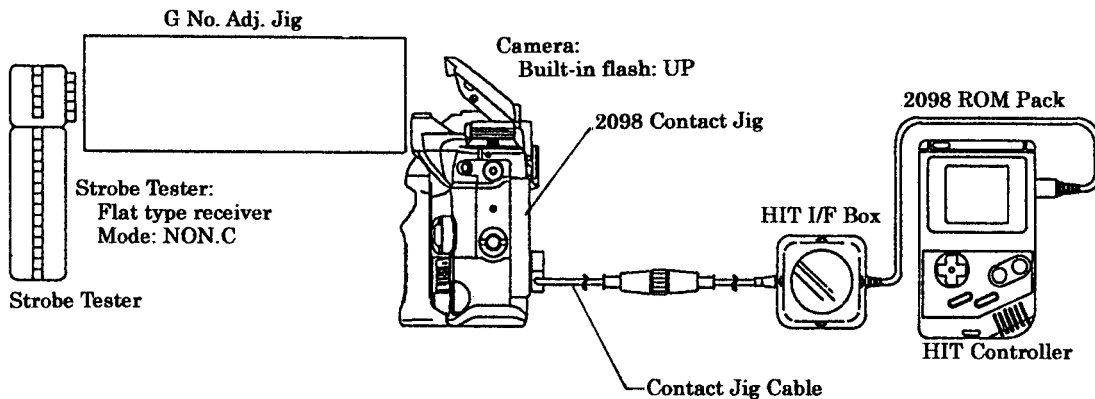
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
Strobe Tester
Guide No. Adj. Jig

■ Adjustment

1. Setup the equipment as in Fig. 1
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "W-LESSFIRE ADJ." from flash adjustment menu, and press SELECT Button.
4. Press Shutter-Release Button partway down. (S1 on)
5. Select "FIRE TIME" and press SELECT Button.
6. Press Shutter-Release Button partway down. Read Strobe Tester when flash fires.
* If reading is out of standard, perform adjustment below.
7. Adjust flash level (firing time: μ S) using Button-A or -B, then press SELECT Button.
• To increase flash level: Press Button-A.
• To decrease flash level: Press Button-B.
8. Repeat from step-5 to -7 until reading meets the standard range.
9. Select "MENU", and press SELECT Button. Displays are replaced with flash adjustment menu.

Allowable range: f/2.8 - f/4

■ Fig. 1



■ Frame Position Adjustment

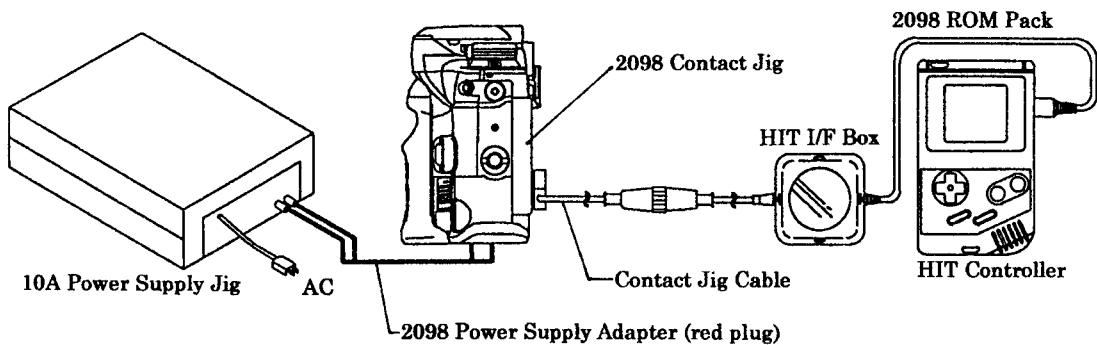
■ Equipment Required

HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 10A Power Supply Jig
 2098 Power Supply Adapter
 DC Power Supply

■ Adjustment

1. Setup the equipment as in Fig. 1.
2. Select "FRAME ADJ." from main menu and press SELECT Button.
3. Press SELECT Button again.
4. Press Shutter-Release Button partway down. (S1 on). "COMPLETE" appears when adjustment is completed.
5. Press SELECT Button to return to the main menu.

■ Fig. 1



■ B.C. Lock Voltage Adjustment

■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
2098 Power Supply Adapter
DC Power Supply
Digital Multimeter

■ Adjustment

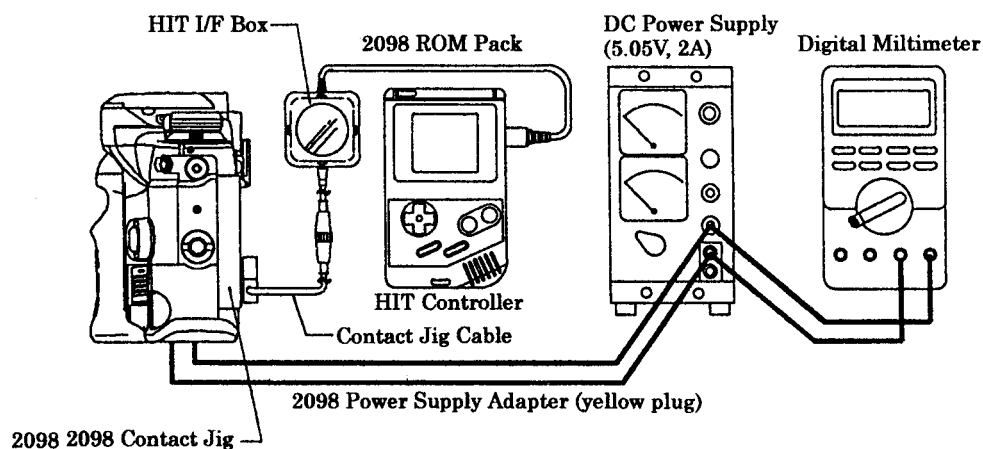
1. Set up the equipment as in Fig. 1.
2. Select "BC-LOCK ADJ." from main menu and press SELECT Button.
3. Set DC Power Supply to 5.05V, then press SELECT Button.
4. Press and hold Shutter-Release Button partway down until "COMPLETE" appears.
5. Press SELECT Button to return to the main menu.

■ Check

1. Check that B.C. lock operates at the voltage below.

Standard: Shutter locks between 4.75V – 4.95V

■ Fig. 1



■ Preparation before adjustment-2 (AF adjustment)

- * After replacing FPC-A, FPC-B, or Mirror Box or its relative parts, always perform adjustment ① to ③ (pg. 55 - 57)
- * Always perform ③ EZ Adjustment (pg. 57) after ①AF Area Adjustment (pg. 55) and ② Pitch, Yaw Adjustment (pg. 56).

■ Before AF adjustment

* The following items should have been completed before starting AF adjustment.

1. Pressure back and viewfinder back check and adjustment.
2. No external part including Bottom Cover is installed.
3. When CCD sensor module is out of position after replacing FPC-B, tighten three AF adjusting screws #2089-5051 until they stop, then evenly loosen them by 0.4mm (1.14 turns).

■ Equipment required

See "Tools & Instruments" (pg.62-63) for model and jig code.

AF Master Lens

AF Chart V

2153 AF Chart

HIT Controller

2098 ROM Pack

2098 Contact Jig

Contact Jig Cable

HIT I/F Box

DC Power Supply

2098 Power Supply Adapter

AF-Y/P Adjuster

AF Tripod Attachment II

Grip Ring

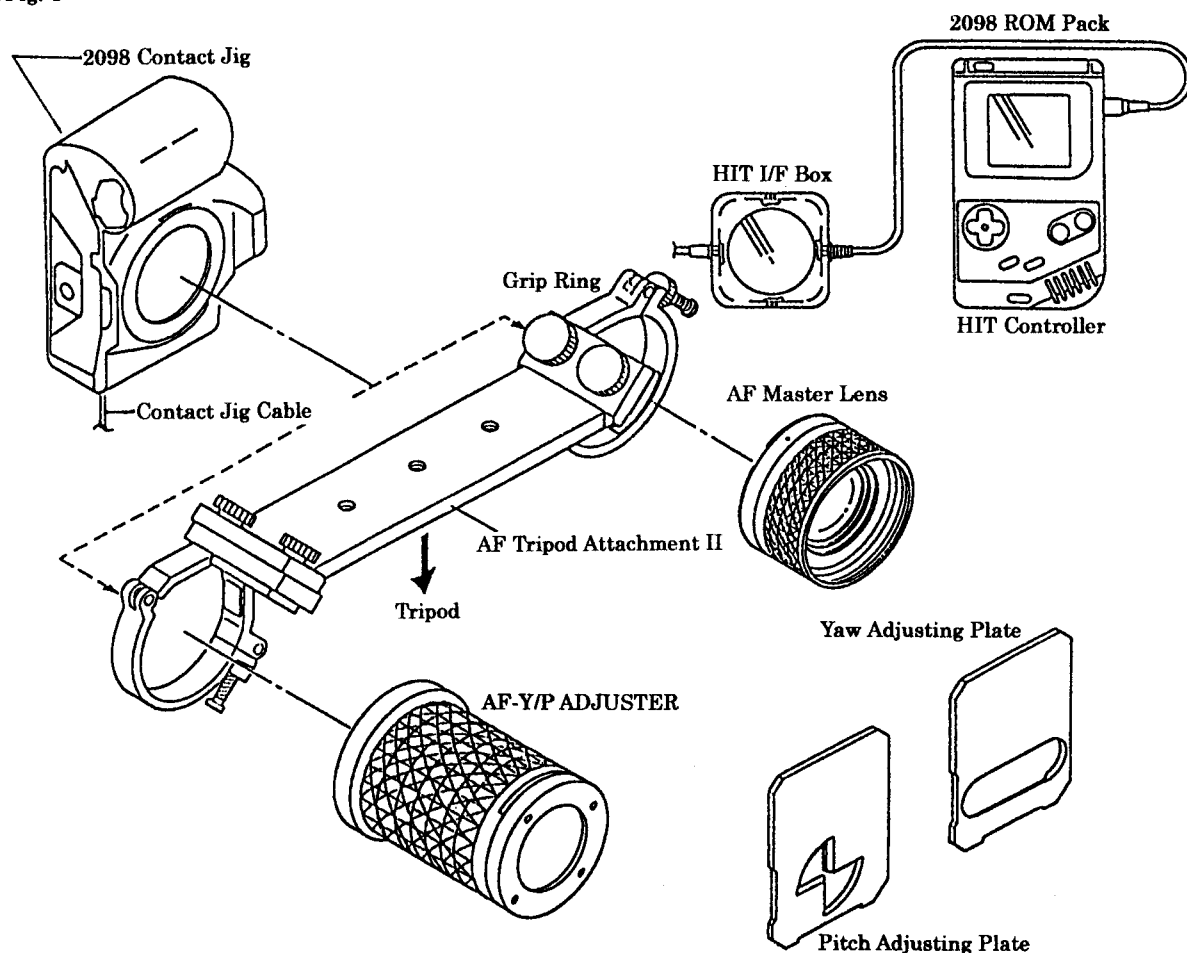
TORX L Wrench

Hexagon Bar Wrench (1.5)

or Hexagon Screwdriver

Flood Lamp (Color temperature of 2800° K)

■ Fig. 1



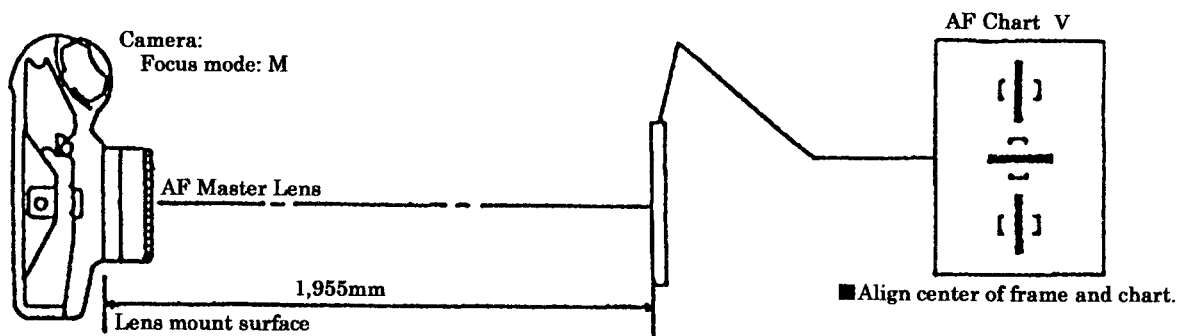
① AF Area Adjustment

■ Adjustment

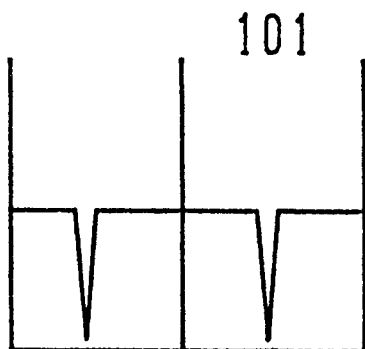
1. Set up the equipment as in Fig. 1
2. Select "AF ADJ." from main menu and press SELECT Button.
3. Select "AREA ADJ." from AF adjustment menu and press SELECT Button.
4. Press and hold Shutter-Release Button partway down so lines with dents and a reading appear in HIT Controller display. Check that each line has two dents like the ones in Fig. 2 and the reading is within standard below.
* If not, perform adjustment as follows.
5. Adjust Sub Mirror position using Hexagon Bar Wrench as in Fig. 3.
6. Repeat step-4 and -5 until the reading is within the standard.
7. Press SELECT Button. Displays are replaced with the AF Adjustment menu.

Adjustment Standard 100 ± 2
(Standard at plant: 100 ± 3)

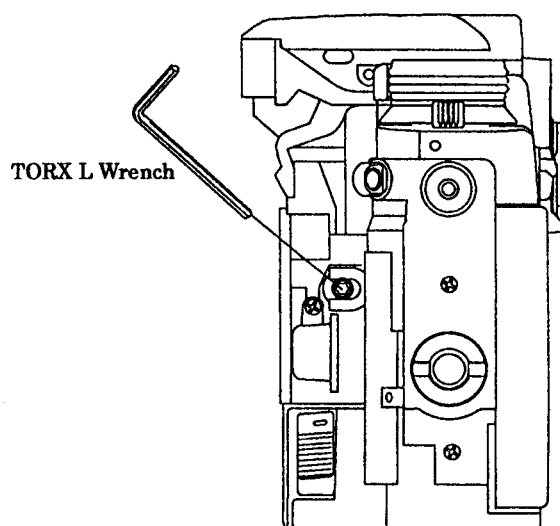
■ Fig. 1



■ Fig. 2



■ Fig. 3



②Pitch Yaw Adjustment

* Light up the chart with a flood lamp during Pitch, Yaw adjustment.

■Pitch Adjustment

1. Attach AF-Y/P Adjuster to the camera, and set Pitch Adjusting Plate. (Fig. 1)
2. Select “AF ADJ.” from main menu and press SELECT Button.
3. Select “ PITCH, YAW ADJ.” from AF adjustment menu and press SELECT Button.
4. Press and hold Shutter-Release Button partway down so that display as Fig. 2 appears.
5. Adjust Pitch Adjusting Screw as in Fig. 4 so that the reading in HIT Controller is within standard. (090-110)

■Yaw Adjustment

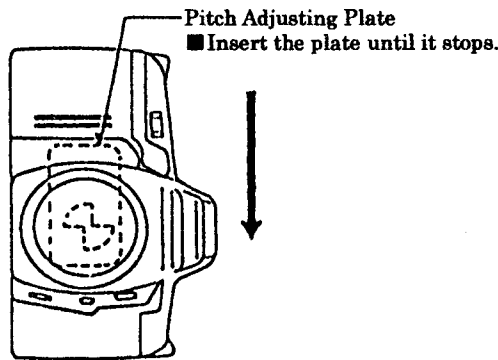
1. Replace Pitch Adjusting Plate with Yaw Adjusting Plate. (Fig. 3)
2. Press and hold Shutter-Release Button partway down so that display as Fig. 2 appears.
3. Adjust Yaw Adjusting Screw as in Fig. 4 so that the reading in HIT Controller is within standard. (090 - 110)
4. Press SELECT Button. Displays are replaced with the AF adjustment menu.

■Check

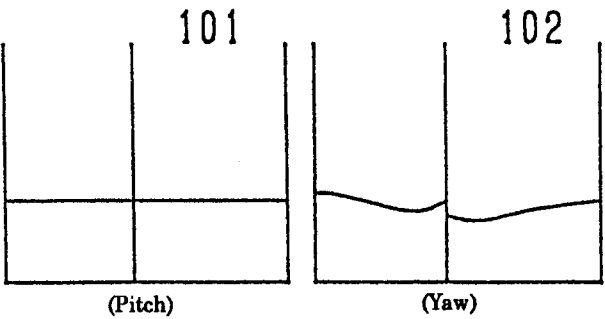
1. Check AF area referring to page 55. Perform “①AF Area Adjustment” and “②Pitch, Yaw Adjustment” repeatedly until all readings meet the standards.

	Adjustment standard	(Standard at plant)
Pitch	090—110	(072-139)
Yaw	090—110	(077-130)

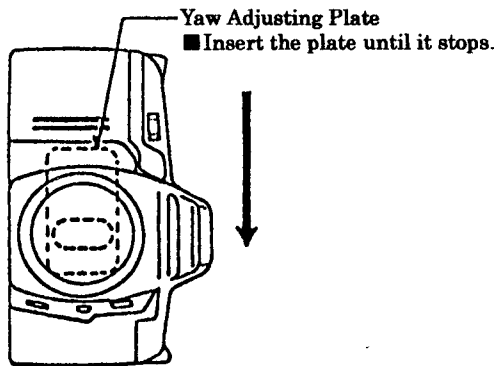
■Fig. 1



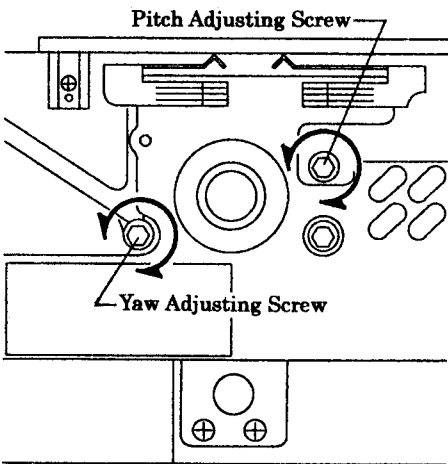
■Fig. 2



■Fig. 3



■Fig. 4



③EZ Adjustment

■ Check

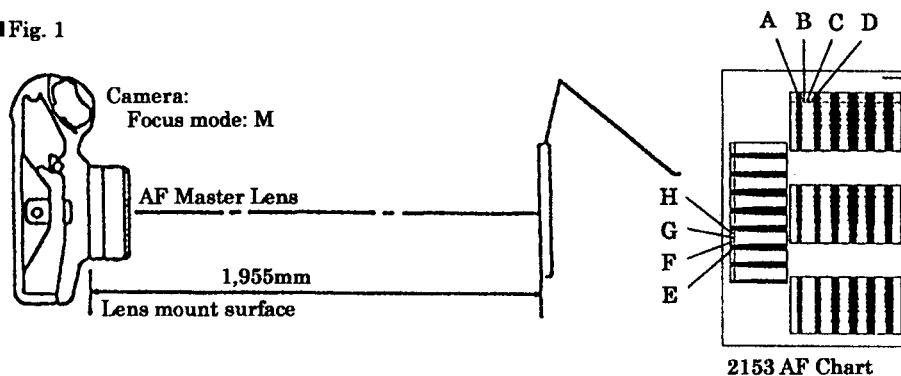
1. Set up the equipment as in Fig. 1
2. Select "AF ADJ." from main menu and press SELECT Button.
3. Select "EZ CHECK" from AF adjustment menu and press SELECT Button.
4. Select "1. 3. 4. ISLAND" or "2. ISLAND" and press SELECT Button.
5. Looking through the viewfinder, align Focus Frame with 2153 AF Chart as below.
 - If "1.3.4. ISLAND" is selected, align Focus Frame with A on 2153 AF Chart.
 - If "2. ISLAND" is selected, align Focus Frame with E on 2153 AF Chart.
6. Press and hold Shutter-Release Button partway down. Reading as Fig. 2 appears.
 - * Check that the reading is within standard range (0+/-50).
7. Select "MENU" and press SELECT Button to quit.

■ Adjustment

1. Set up the equipment as in Fig. 1
2. Select "AF ADJ." from main menu and press SELECT Button.
3. Select "EZ ADJ." from AF adjustment menu and press SELECT Button.
4. Looking through the viewfinder, align Focus Frame with the one appears in HIT Controller. Then press SELECT Button.
5. Press and hold Shutter-Release Button partway down until the next measuring point appears in the display.
6. Repeat step-4 and -5 for each measuring point from "A" to "H". "COMPLETE" appears when all measuring points are adjusted.
7. Press SELECT Button. Displays are replaced with the AF adjustment menu.

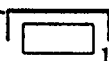
Standard 0+/-50

■ Fig. 1

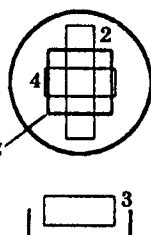


■ Focus Frame's island No.

Align for measuring point "A" - "D".



Align for measuring point "E" - "H".



■ Fig. 2

EZ CHECK	EZ CHECK
1 ISLAND +007	
3 ISLAND +005	
4 ISLAND +005	2 ISLAND +012
MENU	MENU

Assist Mode

The following 7 assistant items are available with 2098 ROM Pack.

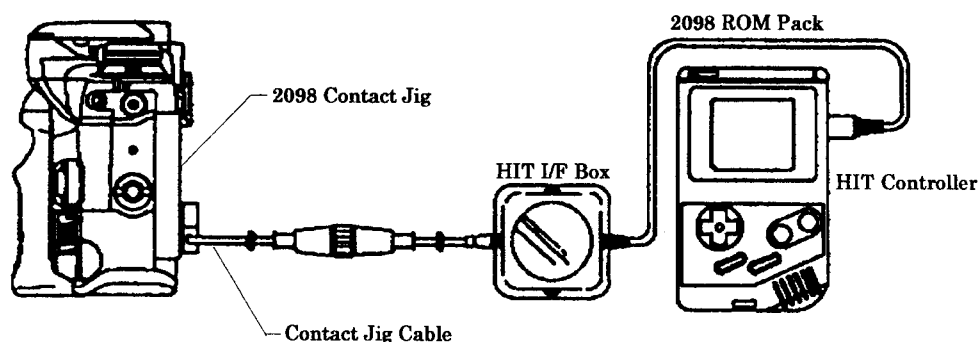
- Model selection
- Data copy
- Trouble code readout
- Sw. check
- Flash charge ON/OFF
- Push-on AF selection
- Focus LED adjustment

ASSIST MODE
MODEL SET
DATA COPY
TROUBLE CODE
SW CHECK
FLASH CHARGE ON/OFF
ONE PUSH AF
FOCUS LED ADJ.
MENU

Preparation

- Setup the equipment as below.
- Select "ASSIST MODE" from main menu and press SELECT Button. Assist mode menu appears in the display.

Fig. 1

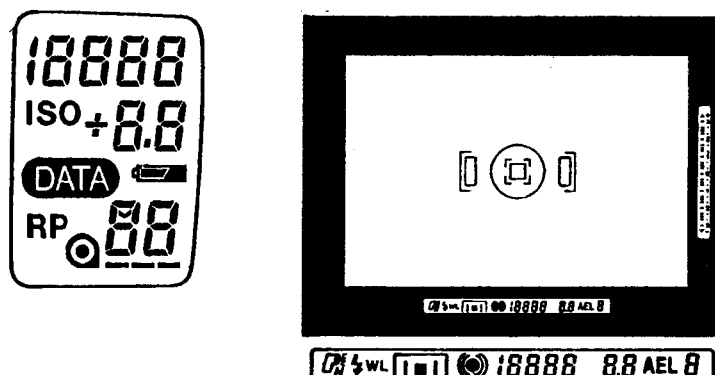


LCD Displays Check

Check

- Slide Main Switch to ON.
- Pressing and holding Manual-Rewind Button, re-install batteries.

*Re-install the batteries again to resume normal display.



Model selection

Note: The "Model selection" is always required when replacing with FPC-A Assy #2098-0901. Select normal or titanium version so that specification and custom functions are suitable for the model.

The "Model selection" is not available with conventional FPC-A Assy #2098-0401.

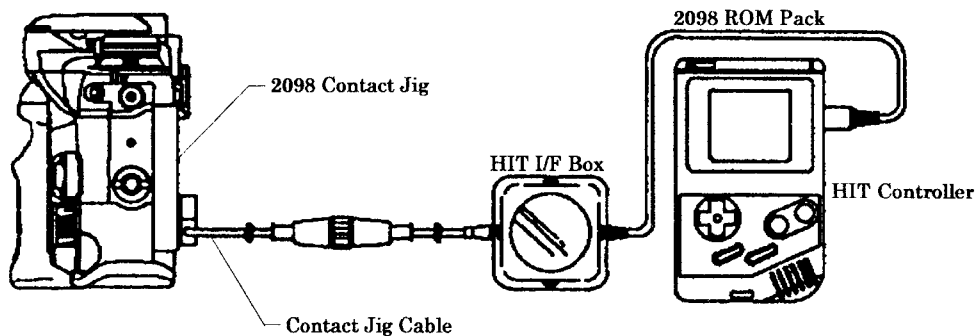
■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

■ Procedure

1. Set up the equipment as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "MODEL SET" from assist mode menu and press SELECT Button.
4. Press Shutter-Release Button partway down (S1 ON).
5. Select "TITAN" with Control Pad and press SELECT Button.
6. Press S1 ON. "COMPLETE" appears when selection completed.
If "CHANGE FLEX" appears, the FPC-A Assy is conventional type #2098-0401.
7. Press SELECT Button to quit.

■ Fig. 1



■ Data Copy; Adjustment data

Note: Keep HIT Controller activated until the whole copying procedure is complete. Otherwise, the data stored in HIT Controller is erased. Before starting data copy, check the battery capacity of HIT Controller, and replace batteries with fresh ones if exhausted.

■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

■ Data copy

*Never turn HIT Controller off during data copy (up to step-9)

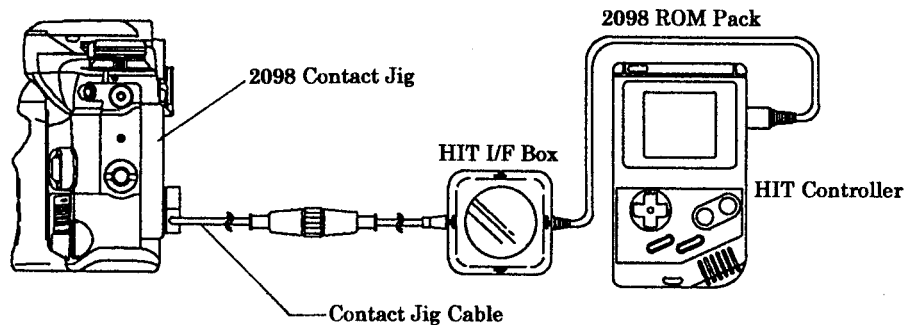
■ Read out from original FPC-A (before removing FPC-A)

1. Set up the equipment as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "DATA COPY" from assist mode menu and press SELECT Button.
4. Select "READ" and press SELECT Button.
5. Press Shutter-Release Button partway down. "DATA STORED" appears when data copy to HIT Controller is completed.

■ Write in to new FPC-A (after installing new FPC-A)

1. Set up the equipment as in Fig. 1.
2. Select "WRITE" and press SELECT Button.
3. Press Shutter-Release Button partway down. "COMPLETE" appears when data copy to HIT Controller is completed.
4. Select "MENU" and press SELECT Button. Displays are replaced with assist mode menu.

■ Fig. 1



■ Data Copy; Photographic data

■ Equipment required

Data Memory Back-9
SmartMedia Card

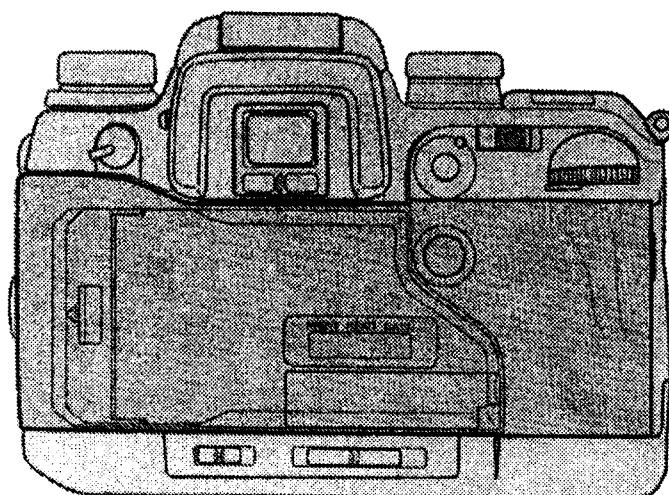
■ Read out from original FPC-A to SmartMedia Card (before removing FPC-A)

1. Set up the equipment as in Fig. 1.
2. Turn all displays on in LCD;
Slide Main Switch to on, and pressing and holding Manual-Rewind Button, re-install batteries.
Re-install batteries again to resume normal display.
3. Press ISO Button. Display as Fig. 2 appears.
* "DATA" blinks in Data Panel during data transfer, "E" appears in Data Panel when complete.

■ Write in to new FPC-A from SmartMedia Card (after installing new FPC-A)

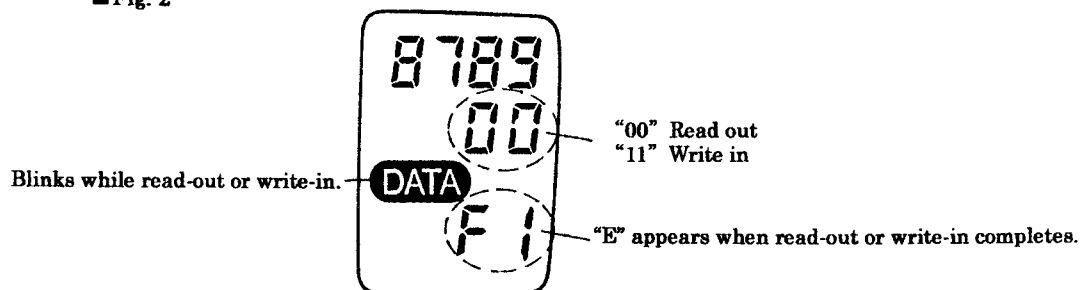
1. Set up the equipment as in Fig. 1.
2. Turn all displays on in LCD;
Slide Main Switch to on, and pressing and holding Manual-Rewind Button, re-install batteries.
Re-install batteries again to resume normal display.
3. Press Adjust Button. Display as Fig. 2 appears.
* "DATA" blinks in Data Panel during data transfer, "E" appears in Data Panel when complete.

■ Fig. 1



DATA MEMORY BACK 9 (#8789)
SmartMedia Card inserted

■ Fig. 2



■ Error Code on HIT Controller

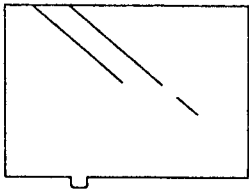
■ Error code list

Item	Error code	Meaning	Causing
BC lock voltage adjustment	10	A/D conversion reading at battery check is incorrect	<ul style="list-style-type: none"> • Voltage is wrongly set • Resistance of Power Supply Adapter is defective. • Resistor for BC dummy current is defective, triggering failure.
AE adjustment	21	Little difference between EV6 and EV15.	<ul style="list-style-type: none"> • Luminance is wrongly set. • SPC is disconnected.
Manual set SS adjustment	28	Out of adjustable range; Input value is out of adjustable range	<ul style="list-style-type: none"> • Defective Shutter Assy
Flash SPC Level adjustment / Flash level adjustment	30	Flash level is incorrect.	<ul style="list-style-type: none"> • Luminance is wrongly set. • SPC is disconnected. • Reflection Paper isn't set. • Aperture mechanism is defective.
Aperture preset adjustment	50	Aperture pulse doesn't change	<ul style="list-style-type: none"> • Defective Aperture Baseplate Assy
EZ Adjustment	61	Low contrast	<ul style="list-style-type: none"> • Chart is out of position • Chart is too close/far. • CCD is defective.

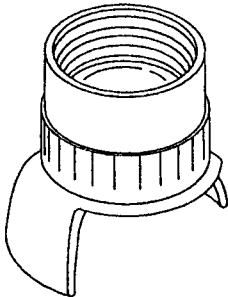
Tools & Instruments

- Luminance Box <Model L-2101, L-2111, *L-222, *L-223>
EE Tester <Model EE-2101, EE-2111> OR Multi-Camera Tester <7981-1025-01>
Shutter Tester <Model S-2201>
- 1000mm Collimator <Model RC-III, *II, *I >
Digital Multimeter <FLUKE 83>
DC Power Supply <MTR18-2>
Camera Leak Tester <CL-1101, CL-1201>
Strobe Tester <ST-V, *IV, *III>
PROGRAM (MAXXUM) FLASH Xi series
Master Lens <2072-0001-75>
AF Master Lens <2072-0006-75>
2098 Finder Frame Screen <2098-0001-75>
2098 Finder Frame Loupe <2098-0002-75>
2098 Finder Frame Chart <2098-0003-75>
2098 Focus Area LED Chart <2098-0004-75>
HIT Controller<7981-5001-01>
Contact Jig Cable <7981-5001-05>
2098 ROM PACK III <7981-5002-33>
2098 Contact Jig <7981-5001-33>
HIT I/F Box <7981-5001-33>
SPC Chart <2082-0004-75>
AF Chart V <2082-0001-75>
2153 AF Chart <2153-0001-75>
G No. Adj. Jig <2082-0005-75>
Mechanical Charge Jig <2081-2504-75>
2098 Power Supply Adapter <7981-1018-76>
- Sync Cord<7981-1013-11>
Remote Cord <RC-1000>
AF Tripod Attachment II <2072-0003-76>
AF-Y/P Adjuster <2076-0006-75>
Grip Ring <7983-9004-01>
Mirror Remover <2071-5806-75>
Mirror Positioner <2072-5151-75>
Mount for BB Adj. <7982-2007-01>
Body Back Flat Plate-A <7982-2004-01>
Body Back Gauge <7982-2002-01>
Dial Gauge <7982-2001-11>
TORX L Wrench (T8) <7983-1032-01>
Focusing Glass type-A II <7983-2009-02>
Copy Stand
Discharger II <7983-9005-01>
Hexagon Bar Wrench (1.5)
Hexagon Screwdriver <7983-1040-01>
Reflection Paper <7981-3001-52>
Flood Lamp (Color temperature of 2800° K)
Film (Kodacolor gold 100 Color negative film;
Exposed indoor for 24 hours or longer)
*: Production ceased.

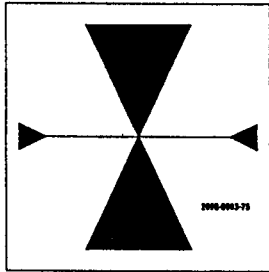
2098 Finder Frame Screen
<2098-0001-75>



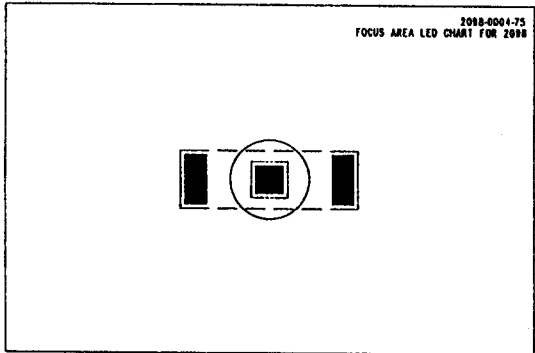
2098 Finder Frame Loupe
<2098-0002-75>



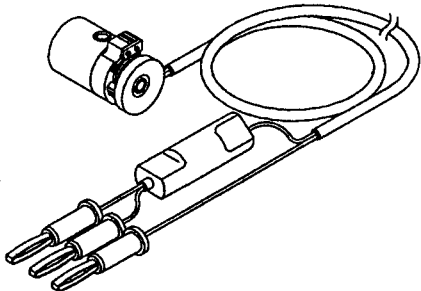
2098 Finder Frame Chart
<2098-0003-75>



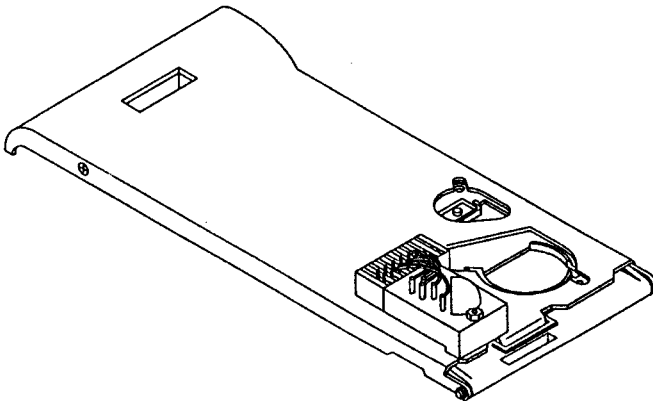
2098 Focus Area LED Chart <2098-0004-75>



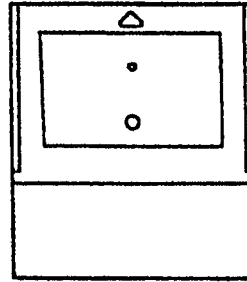
2098 Power Supply Adapter <7981-1018-76>



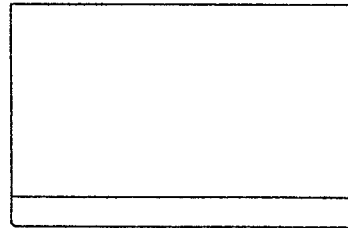
■ 2098 Contact Jig <7981-5001-37>



■ 2098 ROM PACK III <7981-5002-33>



■ Focusing Glass type-AII <7983-2009-02>



■ Subsidiary Materials

■ Grease

G-75 <7984-1075-01>

G-85 <7984-1085-01>

G-115 <7984-1115-01>

■ Adhesive

B-50 <7984-2050-01>

B-60 <7984-2060-01>

Trouble-shooting Chart

■ This section consists of the following items.

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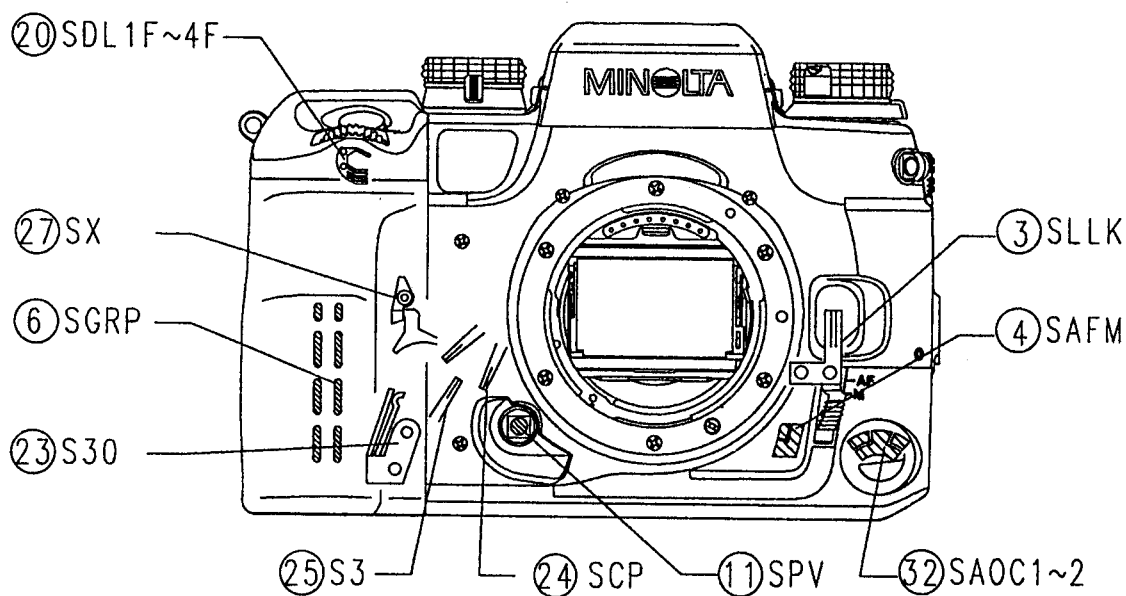
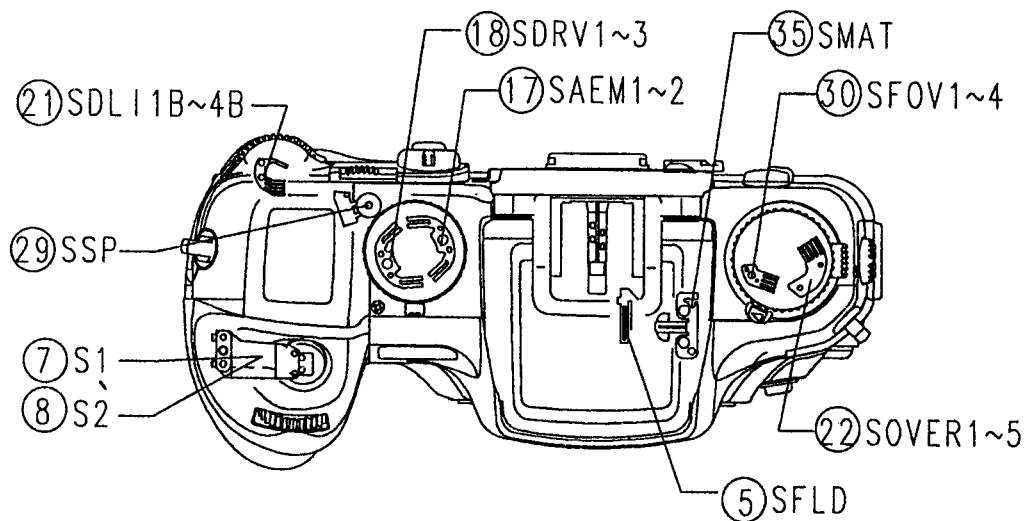
■ Precautions	1	■ Electrical Elements list	2
■ Switches	2	■ FPC-A Assy (0401)	13
■ Layout	2	■ DC/DC Converter PCB Assy (0444)	15
■ Switch Function	2	■ Flash PCB Assy (0443)	16
■ Switch Check	2	■ FPC-O Assy (0415)	17
■ Trouble code	2	■ FPC-M Assy (0413)	17
■ Trouble code list	2	■ FPC-H Assy (0408)	18
■ Cause-finding chart	2	■ FPC-N Assy (0414)	19
■ Map of electrical elements	2	■ FPC2 Lens Holder Assy (0515)	19
		■ FPC-B Assy (0402)	20
		■ Aperture Baseplate Assy (0250)	20
		■ FPC-G Assy (0407)	20
		■ FPC-L Assy (0412)	21
		■ Penta-Prism Assy (0580)	21
		■ FPC-Q (4017)	22
		■ FPC-W Assy (0433)	22
		■ FPC-S Assy (0419)	22
		■ AF Button PCB Assy (0420)	22
		■ Circuit Diagram 1	23
		■ Circuit Diagram (Flash)	24

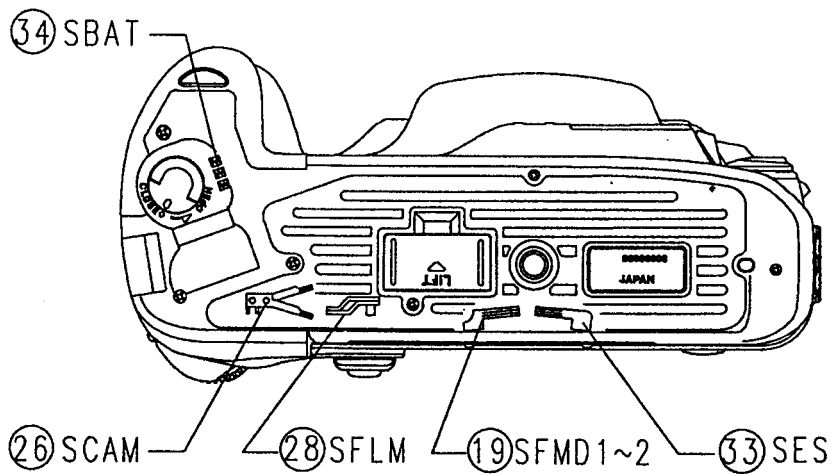
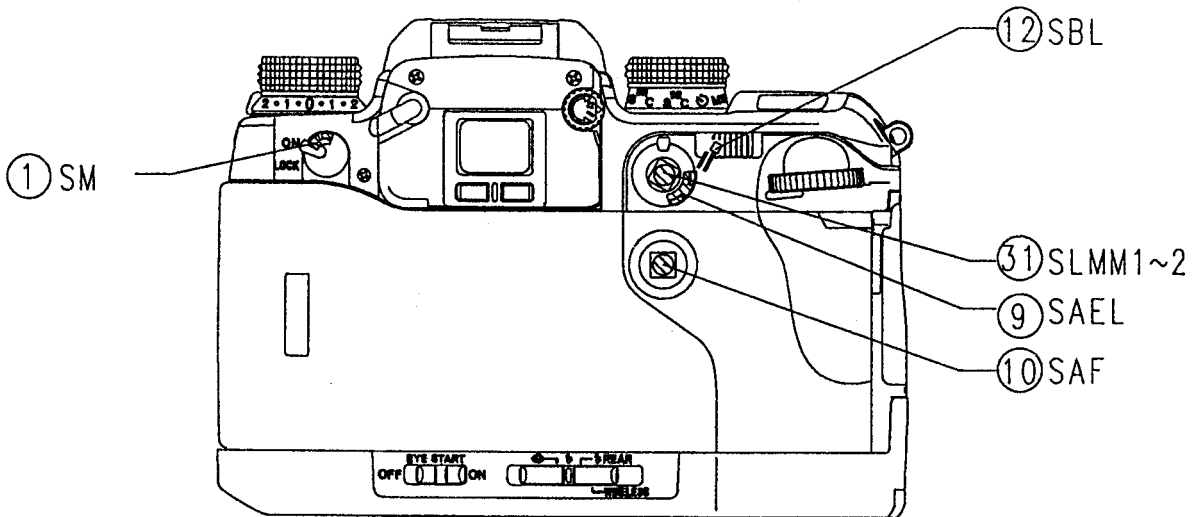
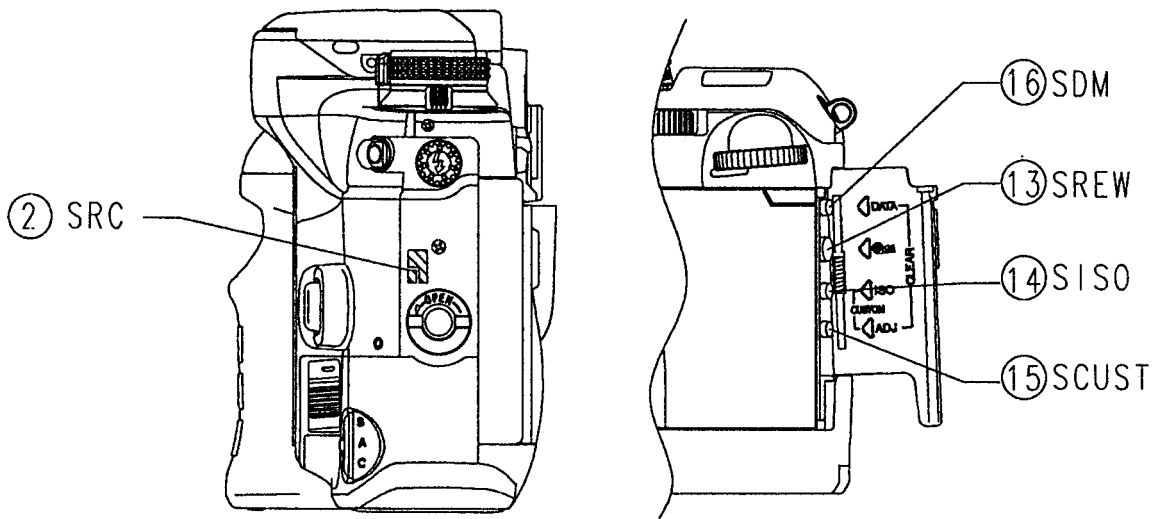
■ Precautions

- (1) To check voltage, use digital Multimeter or an apparatus which input impedance of 10M Ω or greater.
- (2) To check conductivity, use a circuit tester of 3V or less.
- (3) check mainly soldering at lead wires or electrical elements and switch operation, since elements (IC, diode, transistor, resistor, or condenser) seldom cause the trouble.
- (4) When checking, do not push elements or pull lead wires strongly.
- (5) When checking voltage at patterns where switch operates, be careful not to prevent switch operation or to scratch patterns.
- (6) Before removing electrical parts, be sure to disconnect Power Supply.
- (7) Before soldering, heat the soldering iron to 290 - 340°C. If higher, solder quickly.
- (8) When handling ICs avoid static electricity.
- (9) When using DC Power Supply, set the unit to 5.9V/2A.

■Switches

■Layout





Switch Function

No.	Symbol	Description	Function	Operation																																
1	SM	Main	Activates/deactivates camera	ON/OFF by sliding Main Switch																																
2	SRC	Back cover	Detects back cover status	OFF when Back Cover closed.																																
3	SLLK	Lens Lock	Detects lens existence	OFF when lens is attached																																
4	SAFM	AF/M	Detects AF coupler status	ON in AF mode, OFF in M mode																																
5	SFLD	Flash down	Detects built-in flash position.	ON when flash is up.																																
6	SGRP	Grip	Detects grip sensor	ON when grip is held																																
7	S1	Metering	Starts metering, focusing, indications	ON by pressing Shutter-Release Button partway down.																																
8	S2	Release	Starts shutter release	ON by pressing Shutter-Release Button all the way down.																																
9	SAEL	AE lock	Holds metering value	ON by pressing AE Lock Button																																
10	SAF	AF	Selects focus area	By Control Dials																																
11	SPV	Preview、	Detects depth-of-field preview	On by pressing Depth-of-field Preview Button.																																
12	SBL	Back light	Starts on-body LCD illumination	ON by sliding Data Panel Illuminator																																
13	SREW	Rewind	Starts rewind	ON by pressing Rewind Button																																
14	SISO	ISO	Selects film speed	By Control Dial																																
15	SCUST	Adjust	Sets Adjust/Custom setting	By Control Dial (+ISO Button)																																
16	SDM	Data Memory	Stores photographic data	By Control Dial																																
17	SAEM1 to 2	Exposure mode	Selects exposure mode (P/A/S/M)	Combination; <table><tr><td></td><td>SAEM1</td><td>SAEM2</td></tr><tr><td>P</td><td>OFF</td><td>ON</td></tr><tr><td>A</td><td>ON</td><td>ON</td></tr><tr><td>S</td><td>ON</td><td>OFF</td></tr><tr><td>M</td><td>OFF</td><td>OFF</td></tr></table>		SAEM1	SAEM2	P	OFF	ON	A	ON	ON	S	ON	OFF	M	OFF	OFF																	
	SAEM1	SAEM2																																		
P	OFF	ON																																		
A	ON	ON																																		
S	ON	OFF																																		
M	OFF	OFF																																		
18	SDRV1 to 3	Drive mode	Selects drive mode	Combination; <table><tr><td></td><td colspan="3">SCRV</td></tr><tr><td></td><td>1</td><td>2</td><td>3</td></tr><tr><td>Multi</td><td>ON</td><td>OFF</td><td>OFF</td></tr><tr><td>Self</td><td>ON</td><td>ON</td><td>OFF</td></tr><tr><td>Cont.</td><td>OFF</td><td>ON</td><td>OFF</td></tr><tr><td>Single</td><td>OFF</td><td>OFF</td><td>OFF</td></tr><tr><td>Cont. bracket</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>Single bracket</td><td>ON</td><td>OFF</td><td>ON</td></tr></table>		SCRV				1	2	3	Multi	ON	OFF	OFF	Self	ON	ON	OFF	Cont.	OFF	ON	OFF	Single	OFF	OFF	OFF	Cont. bracket	OFF	OFF	ON	Single bracket	ON	OFF	ON
	SCRV																																			
	1	2	3																																	
Multi	ON	OFF	OFF																																	
Self	ON	ON	OFF																																	
Cont.	OFF	ON	OFF																																	
Single	OFF	OFF	OFF																																	
Cont. bracket	OFF	OFF	ON																																	
Single bracket	ON	OFF	ON																																	
19	SFMD1 to 2	Flash mode	Selects flash mode	Combination; <table><tr><td></td><td colspan="2">SFMD</td></tr><tr><td></td><td>1</td><td>2</td></tr><tr><td>Pre</td><td>OFF</td><td>ON</td></tr><tr><td>Normal</td><td>OFF</td><td>OFF</td></tr><tr><td>Rear-sync.</td><td>ON</td><td>ON</td></tr><tr><td>Wireless</td><td>ON</td><td>OFF</td></tr></table>		SFMD			1	2	Pre	OFF	ON	Normal	OFF	OFF	Rear-sync.	ON	ON	Wireless	ON	OFF														
	SFMD																																			
	1	2																																		
Pre	OFF	ON																																		
Normal	OFF	OFF																																		
Rear-sync.	ON	ON																																		
Wireless	ON	OFF																																		
20	SDL1F to 4F	Front Dial	Selects settings	By Front Control Dial																																

TRUBLE-SHOOTING
CHART

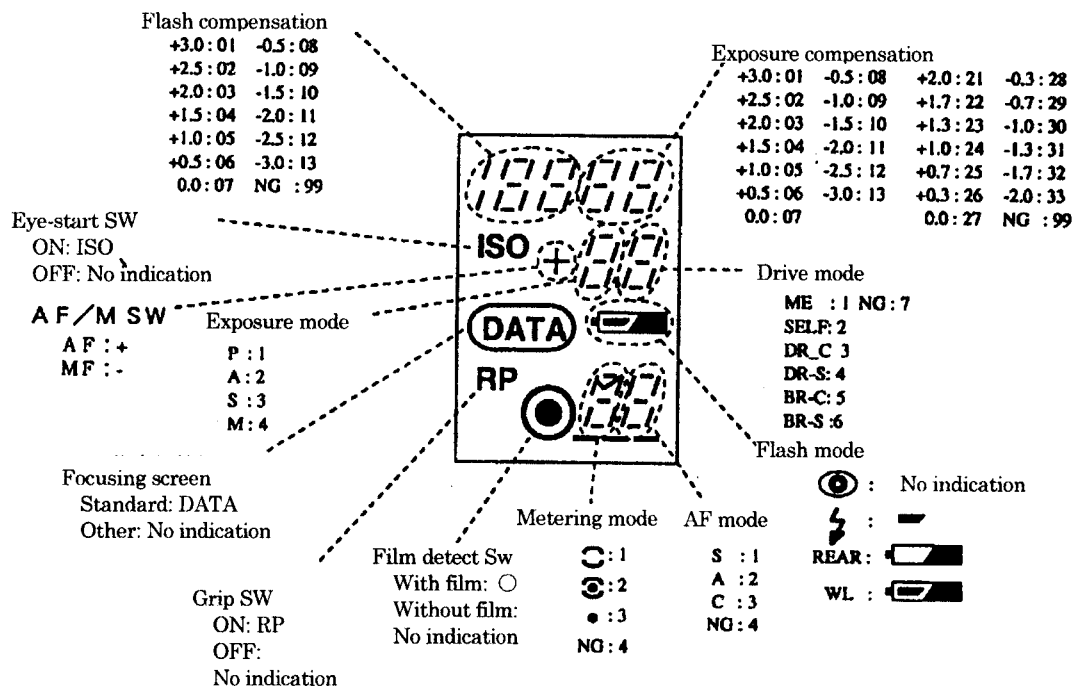
No.	Symbol	Description	Function	Operation															
21	SDL1B to 4B	Rear Dial	Selects settings	By Rear Control Dial															
22	SOVER1 to 5	Exposure-compensation	Sets exposure-compensation	By Exposure-Compensation Dial															
23	S30	Open aperture	Detects shutter release	ON when SL2 RMg separates															
24	SCP	Mid-charge	Detects aperture, mirror charge completion	ON instantly when aperture and mirror charge completes. OFF when mechanical charge compompletes.															
25	S3	Charge completion	Detects mechanical charge completion	ON at mechanical charge completion															
26	SCAM	Transport changeover	Detects position of film transport mechanism	ON during film advance, OFF during film rewind															
27	SX	Sync.	Triggers flash	ON when 1C run completes, OFF when film advance starts															
28	SFILM	Film detect	Detects film existence	OFF when film is loaded.															
29	SSP	Sprocket	Detects film transportation	ON/OFF according to sprocket rotation															
30	SFOV1 to 4	Flash compensation	Sets flash compensation	By Flash-Compensation Dial															
31	SLMM1 to 2	Metering mode	Selects metering mode	Combination <table><tr><td></td><td colspan="2">SLMM</td></tr><tr><td></td><td>1</td><td>2</td></tr><tr><td>Sport</td><td>ON</td><td>OFF</td></tr><tr><td>Multi</td><td>OFF</td><td>OFF</td></tr><tr><td>Average</td><td>OFF</td><td>ON</td></tr></table>		SLMM			1	2	Sport	ON	OFF	Multi	OFF	OFF	Average	OFF	ON
	SLMM																		
	1	2																	
Sport	ON	OFF																	
Multi	OFF	OFF																	
Average	OFF	ON																	
32	SAOC1 to 2	AF mode	Selects AF mode	Combination <table><tr><td></td><td colspan="2">SAOC</td></tr><tr><td></td><td>1</td><td>2</td></tr><tr><td>Continuous</td><td>ON</td><td>OFF</td></tr><tr><td>Auto</td><td>OFF</td><td>OFF</td></tr><tr><td>Single</td><td>OFF</td><td>ON</td></tr></table>		SAOC			1	2	Continuous	ON	OFF	Auto	OFF	OFF	Single	OFF	ON
	SAOC																		
	1	2																	
Continuous	ON	OFF																	
Auto	OFF	OFF																	
Single	OFF	ON																	
33	SES	Eye-start	Selects eye-start on/off	OFF by sliding Eye-Start Switch to ON															
34	SBAT	Battery	Resets IC1	OFF when batteries are installed															
35	SMAT	Focus screen detect	Detects Focus screen type-M	OFF when Focus screen type-M attached															

Switch Check

Check-1

- 1. Turn Main Switch to ON. While pressing Rewind Button, re-install batteries.
- All displays appear in Data Panel.
- 2. Press Rewind Button again. Display as Fig. 1 appears showing switch status.
- 3. Re-install batteries to return to normal display.

Fig.1



Check-2

- 1. Set up the equipment as in Fig. 2.
- 2. Select "SW CHECK" from assist mode menu and press SELECT Button.
- 3. Press Shutter-Release Button partway down.
- Switch status appears as in Fig. 3.
- Some of them don't appear unless S1 ON.
- 4. Press SELECT Button. Displays are replaced with the assist mode menu.

Equipment required for Check-2

- HIT Controller
- HIT I/F Box
- 2098 ROM Pack
- HIT Contact Jig-C
- Contact Jig Cable

Fig. 2

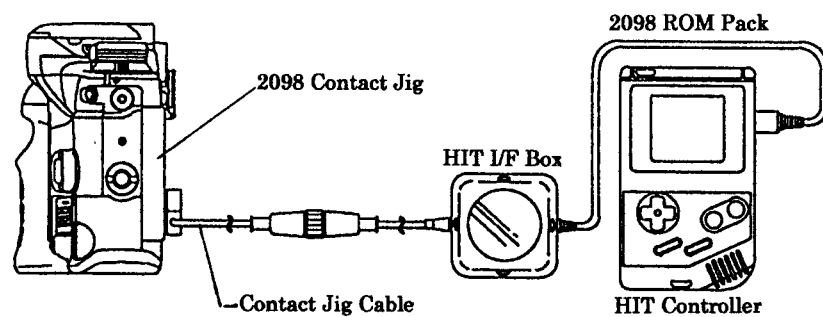
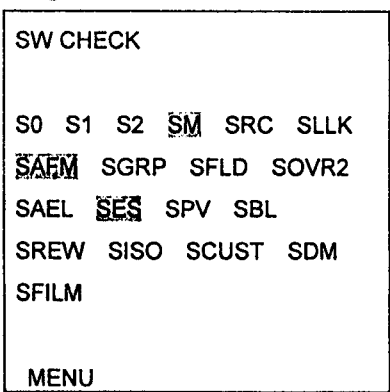


Fig. 3



■Trouble code

■Check-1

1. While error display appears, or while all displays appear in Data Panel (See Check-1-1, pg. 6), pressing and holding shutter-Release Button all the way down, press Rewind Button.

*Current error code appears in Data Panel.

2. Slide Main Switch to ON to return to normal display.

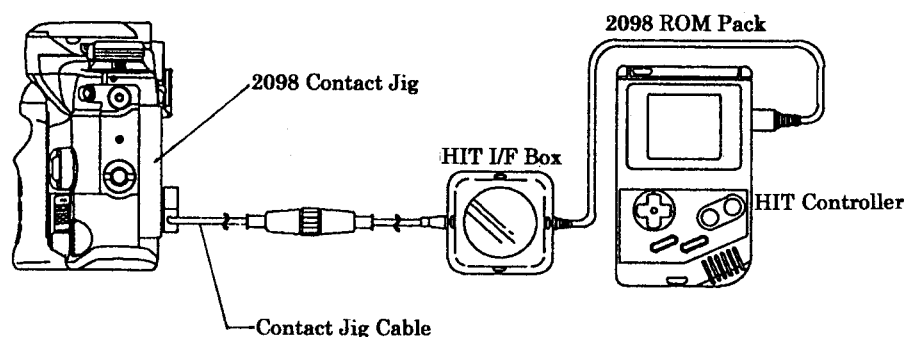
■Check-2

1. Set up the equipment as in Fig. 1.
2. Select "TROUBLE CODE" from assist mode menu and press SELECT Button.
3. Press Shutter-Release Button partway down. Trouble codes appear. To erase the codes in memory, select "CLEAR" and press SELECT Button.
4. Select "MENU" and press SELECT Button. Displays are replaced with the assist mode menu.

■Equipment required for Check-2

HIT Controller
HIT I/F Box
2098 ROM Pack
HIT Contact Jig-C
Contact Jig Cable

■Fig. 1



■Trouble code list

Code	Condition	Cause	Indication
01	S30 does not turn off or no aperture pulse output within 9ms after RMg ON.	-Poor Aperture Mg. Attraction	Internal HELP; RMg OFF, FMg ON then aperture control.
03	Aperture pulse is over 16 pulses less than required at aperture stabilization completion	-Aperture operation failure	"Err" in Data Panel; if it occurs successively.
04	Aperture pulse is over 24 pulses more than required at aperture stabilization completed.	-Aperture stop failure.	Internal HELP
10	During shutter-release charge, S3 doesn't turn ON 800ms after charge motor powered. During depth-of-field preview, S3 doesn't turn ON after PV Switch OFF or 400ms after SCP ON During shutter release in depth-of-field preview, S3 doesn't turn ON after S2 ON or 400ms after SCP ON.	-S3 poor contact -Poor soldering -Motor failure -Defective gear -Defective IC6	Data Panel turns off; after Charge motor brakes for 50ms
11	During shutter-release charge, SCP doesn't turn ON 800ms after charge motor powered. During depth-of-field preview, SCP doesn't turn ON after PV Switch OFF or 400ms after SCP ON During shutter release in depth-of-field preview, SCP doesn't turn ON 400ms after S2 ON.	-SCP poor contact -Poor soldering -Motor failure -Defective gear -Defective IC6	Data Panel turns off; after Charge motor (M3) brakes for 50ms
12	Shutter isn't set; SX is ON before shutter 1C run	Shutter isn't set.	Data Panel turns off; when S2 is on. (No indication if back cover is open.)
13	Shutter doesn't run; SX isn't ON after 1C run and SREL ON	Shutter failure	"Err" in Data Panel; if it occurs successively for 2 frames..
20	SCAM does not change 1.5sec after winding motor reverse drive start	-No gears changeover -SCAM contact failure -Aperture operation failure	Data Panel turns off; after Winding motor brakes for 50ms.
21	SSP does not change after 8400 WMP (winding motor pulse) during film rewind.	-Film tear-off -Rewind fork doesn't catch film.	Data Panel turns off; after Winding motor brakes for 50ms.
22	During film rewind L-drive, WMP output is less than 5 pulses in 40ms successively for 10 times.	-Film jam	Data Panel turns off; after Winding motor brakes for 50ms.
80	No integration-start-signal output during CCD initializing	-CCD failure -Poor contact between FPC-A and B.	Data Panel turns off; after CCD initializing terminated.

■ Cause-finding chart

■ No activation

Symptom	Cause			
	IC	Connection	Element	Switch and other
No activation	IC-1 (2) IC-3 (34)(35) (36)(37) (44)	W7, W8, W12, W13, W15, W37, W38 Stained FPC-V pattern CN-DCO CN-4, CN-8 CN-AF, CN-AM	R10, R11, R86, C15, C16, C27 X2, X3	SM

■ No shutter release

Symptom	Cause			
	IC	Connection	Element	Switch and other
No shutter release	IC-1 (16) IC-3 (45)(46) IC-4 (46)(57)	W4, W6, W54, W55, W56	R15, R16	

■ Err

Symptom	Cause			
	IC	Connection	Element	Switch and other
Err03	IC-1 (19)(21) IC-4 (15)	CN-AF, CN-AM		S30
Err04			Q9	
Err10	IC-6	W3, W7		S3 Aperture Baseplate Assy
Err11	IC-6			SCP Aperture Baseplate Assy
Err12				SCP
Err13	IC-4 (54)(59)	W18, W19, W66, W67	Q19	
Err20				SCAM
Err22				SSP Winding Baseplate Assy
Err80		CN-AB, CN-AP		FPC-B Assy

■ No shutter release with Remote-controller

Symptom	Cause			
	IC	Connection	Element	Switch and other
No shutter release with Remote-Controller			R12, R13, R14	FPC-M Assy

■ No initial loading

Symptom	Cause			
	IC	Connection	Element	Switch and other
No initial loading	IC-1 (38) IC-3 (43)	W64, W65 CN-AF, CN-AM CN-AN, CN-AD	R81	FPC-D Assy FPC-M Assy

■No built-in flash firing

Symptom	Cause			
	IC	Connection	Element	Switch and other
No flash charge and no shutter-release	IC-1 (53)	W12, W13, W15	T151 D152 Q154, etc.	
Flash charges but no shutter-release	IC-1 (54)	W11	ZD151 R161, R162 Q157	
Flash charge but not fires	IC-1 (78) IC-4 (18)(43)	W9	Xe tube T152 Q161, Q163, Q164 C158, C159 R168, R169	

■No acc flash firing

Symptom	Cause			
	IC	Connection	Element	Switch and other
No acc flash firing	IC-4 (1)(2)	CN-3, CN-7 F2, F3	L1, L2 C50	

■No pre-flash

Symptom	Cause			
	IC	Connection	Element	Switch and other
No pre flash	IC-1 (53)(54)(78) IC-4 (43)	W11	C158, C159 R164 Q161	

■Display failure in data panel

Symptom	Cause			
	IC	Connection	Element	Switch and other
No display	IC-3 (92)(93)(94) (95)	Short-circuit between SFL and flex from Penta-Prism Assy		FPC-L Assy Flex from Penta- Prism Assy
Missing segments	IC-3 (57 to 88)			FPC-L Assy Flex from Penta- Prism Assy

■No back light

Symptom	Cause			
	IC	Connection	Element	Switch and other
No Data-Panel illuminator	IC-1 (20)	W41, W42	LD5A, LD5K R4 Q2	
No vertical data panel in viewfinder	IC-1 (23)		R60, R61 Q22, Q23	
No horizontal data panel in viewfinder	IC-3 (49)			

■No AF illuminator

Symptom	Cause			
	IC	Connection	Element	Switch and other
All beams do not light.	IC-3 (55)(56)		R53	
Right beam does not light.	IC-1 (1)		Q32, Q33	
Left beam does not light.	IC-1 (99)		Q11, Q13	
Center beam does not light.	IC-1 (100)		Q12	

■No local focus area LED

Symptom	Cause			
	IC	Connection	Element	Switch and other
All local focus area LEDs do not light	IC-1 (22)		Q28, Q29	FPC-Q
Right local focus area LED does not light	IC-1 (35)		Q27 R65	FPC-Q
Left local focus area LED does not light.	IC-1 (33)		Q25 R63	FPC-Q
Center local focus area LED does not light.	IC-1 (34)		Q26 R64	FPC-Q

■AF failure

Symptom	Cause			
	IC	Connection	Element	Switch and other
"F—" appears with 2nd generation lens.	IC-3 (42) IC-4 (4)(6)(7)(8) (29)	W39, W40 BL contact CN-AE	R36, R37, R38, R39, R70	BL Contact Holder Assy SLLK
No infinity reset with 3rd generation lens	IC-4 (4)(5)	BL contact CN-AE	R40, R41, R42 Q8	BL Contact Holder Assy
AF coupler runs idle with any lens	IC-1 (24)	W35, W36		FPC-U
Focus mode cannot set to AF.	IC-1 (24)	W35, W36	R23	SAFM FPC-U
No AF operation	IC-1 (25)(63)(64) IC-4 (31)(78)(79) IC-7		PC1 C37 D12, D13	FPC-G Assy

■No eye detection

Symptom	Cause			
	IC	Connection	Element	Switch and other
No eye detection	IC-2 (11) IC-3 (12)(43)(47) (48)(49)(58)	W43, W44, W59, W60	R8, R9, R78, R79, R81 Q4 C13	SES, SGRP, SRC FPC-O Assy FPC-D FPC-M Assy FPC-N Assy

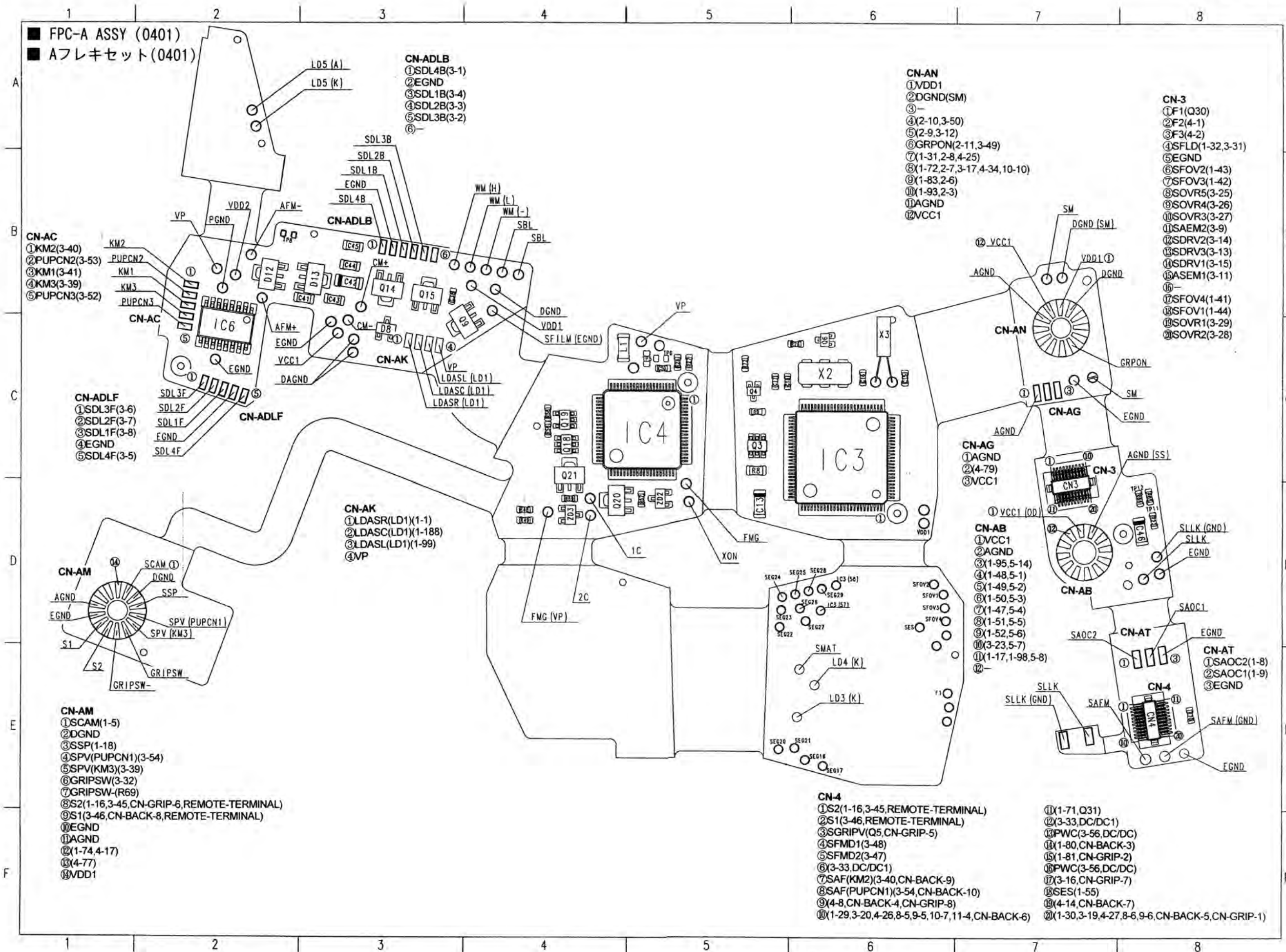
■ Map of electrical elements

■ Electrical Elements list

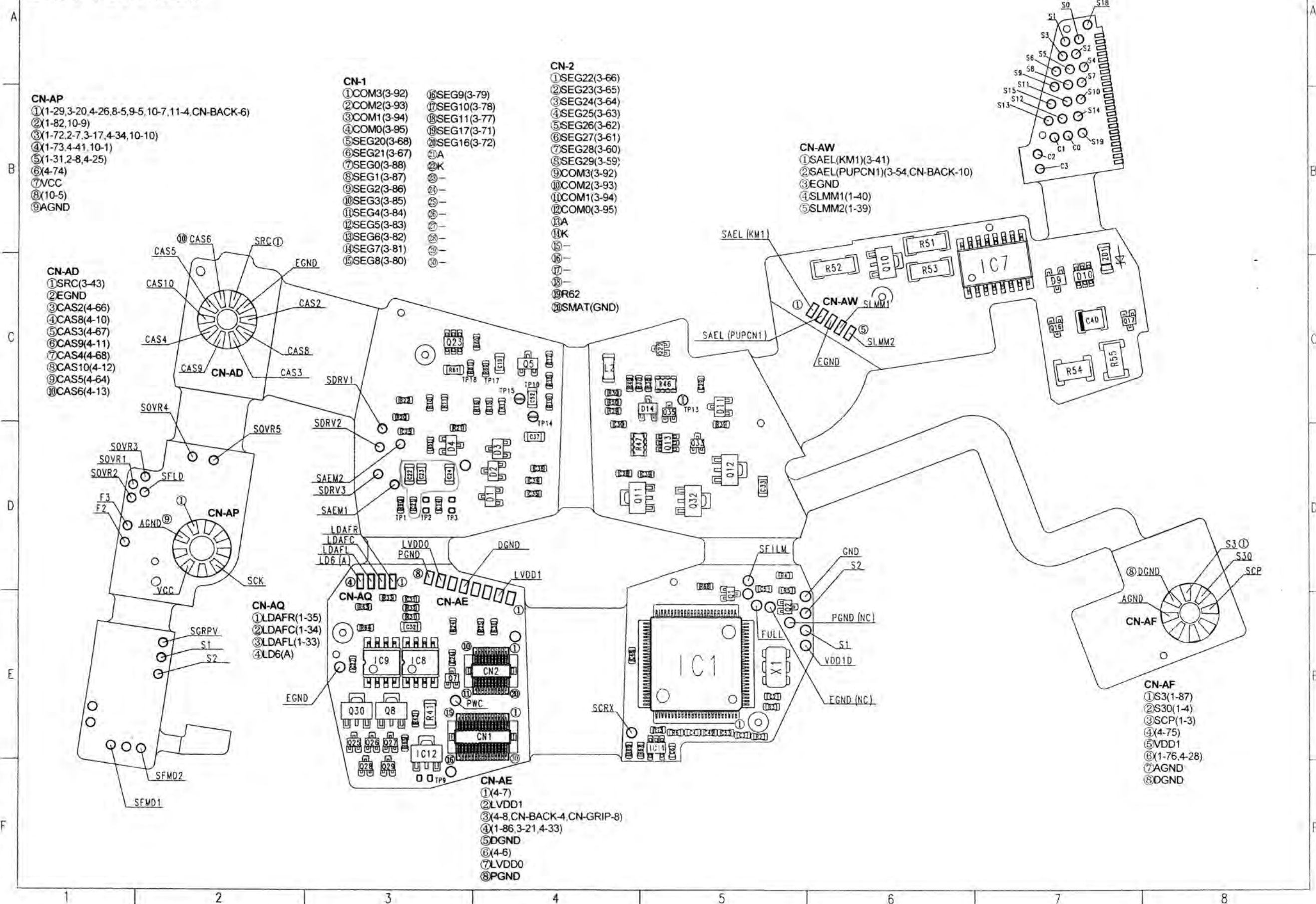
* See "FPC-A Assy" on page in brackets ().

Element	Location	Element	Location	Element	Location	Element	Location
C2	E5 (P. 14)	D1	D4 (P. 14)	R1	C4 (P. 14)	R54	C7 (P. 14)
C3	E5 (P. 14)	D2	D4 (P. 14)	R2	E5 (P. 14)	R55	C7 (P. 14)
C4	E5 (P. 14)	D3	D4 (P. 14)	R3	E5 (P. 14)	R56	C4 (P. 13)
C5	E5 (P. 14)	D4	D3 (P. 14)	R4	D5 (P. 14)	R57	D5 (P. 13)
C6	E5 (P. 14)	D8	C3 (P. 13)	R5	E5 (P. 14)	R58	C4 (P. 13)
C13	D5 (P. 13)	D9	C7 (P. 14)	R6	E5 (P. 14)	R59	D4 (P. 13)
C14	D3 (P. 14)	D10	C7 (P. 14)	R8	C5 (P. 13)	R60	C4 (P. 14)
C15	C6 (P. 13)	D11	C5 (P. 14)	R9	C5 (P. 13)	R61	C3 (P. 14)
C16	C6 (P. 13)	D12	B2 (P. 13)	R10	C3 (P. 14)	R63	E3 (P. 14)
C17	C5 (P. 13)	D13	B3 (P. 13)	R11	C3 (P. 14)	R64	E3 (P. 14)
C18	C5 (P. 13)	D14	C5 (P. 14)	R15	C4 (P. 14)	R65	E3 (P. 14)
C19	C4 (P. 14)			R16	C4 (P. 14)	R66	E4 (P. 14)
C21	D3 (P. 14)	Q1	E5 (P. 14)	R17	C4 (P. 14)	R67	E5 (P. 14)
C22	D3 (P. 14)	Q2	E5 (P. 14)	R18	C4 (P. 14)	R70	E8 (P. 13)
C23	D3 (P. 14)	Q3	C5 (P. 13)	R19	C4 (P. 14)	R72	C5 (P. 13)
C24	D3 (P. 14)	Q4	C5 (P. 13)	R20	C3 (P. 14)	R73	E5 (P. 14)
C25	D3 (P. 14)	Q5	C4 (P. 14)	R21	D3 (P. 14)	R80	C4 (P. 14)
C26	E3 (P. 14)	Q6	C6 (P. 13)	R22	C3 (P. 14)	R81	C3 (P. 14)
C27	E3 (P. 14)	Q7	E3 (P. 14)	R23	D8 (P. 13)	R85	D8 (P. 13)
C28	D4 (P. 14)	Q8	E3 (P. 14)	R24	E3 (P. 14)	R86	D8 (P. 13)
C29	C5 (P. 14)	Q9	C4 (P. 13)	R25	E4 (P. 14)	R88	D5 (P. 14)
C30	D4 (P. 14)	Q10	C6 (P. 14)	R26	C6 (P. 13)	R90	D3 (P. 14)
C31	E3 (P. 14)	Q11	D4 (P. 14)	R27	C5 (P. 13)		
C32	E3 (P. 14)	Q12	D5 (P. 14)	R28	C5 (P. 13)	L1	C4 (P. 13)
C33	D5 (P. 14)	Q13	D5 (P. 14)	R29	C4 (P. 14)	L2	C4 (P. 14)
C34	D4 (P. 14)	Q14	B3 (P. 13)	R30	C4 (P. 14)		
C35	D4 (P. 14)	Q15	B3 (P. 13)	R31	E3 (P. 14)	IC-1	E5 (P. 14)
C36	D4 (P. 14)	Q16	C7 (P. 14)	R32	E3 (P. 14)	IC-3	C6 (P. 13)
C37	D4 (P. 14)	Q17	C7 (P. 14)	R33	E3 (P. 14)	IC-4	C5 (P. 13)
C38	B3 (P. 13)	Q18	C4 (P. 13)	R36	E4 (P. 14)	IC-6	C2 (P. 13)
C39	D5 (P. 14)	Q19	C4 (P. 13)	R37	C4 (P. 14)	IC-7	C7 (P. 14)
C40	C7 (P. 14)	Q20	D4 (P. 13)	R38	C5 (P. 14)	IC-8	E3 (P. 14)
C41	B3 (P. 13)	Q21	C4 (P. 13)	R39	D5 (P. 14)	IC-9	E3 (P. 14)
C42	B3 (P. 13)	Q22	C5 (P. 14)	R40	C4 (P. 14)	IC-11	E5 (P. 14)
C43	B3 (P. 13)	Q23	C3 (P. 14)	R41	E3 (P. 14)	IC-12	E3 (P. 14)
C44	B3 (P. 13)	Q25	E3 (P. 14)	R42	E3 (P. 14)		
C45	B3 (P. 13)	Q26	E3 (P. 14)	R46	C5 (P. 14)	X1	E5 (P. 14)
C46	B8 (P. 13)	Q27	E3 (P. 14)	R47	D4 (P. 14)	X2	C6 (P. 13)
C48	E4 (P. 14)	Q28	F3 (P. 14)	R48	D4 (P. 13)	X3	C6 (P. 13)
C49	E5 (P. 14)	Q29	F3 (P. 14)	R49	D4 (P. 13)		
C50	C5 (P. 13)	Q30	E3 (P. 14)	R50	C4 (P. 14)	CN-1	E4 (P. 14)
C51	D3 (P. 14)	Q32	D5 (P. 14)	R51	B6 (P. 14)	CN-2	E4 (P. 14)
C52	C4 (P. 14)	Q33	D5 (P. 14)	R52	C6 (P. 14)	CN-3	D7 (P. 13)
C53	E5 (P. 14)	Q35	C5 (P. 14)	R53	C6 (P. 14)	CN-4	E8 (P. 13)

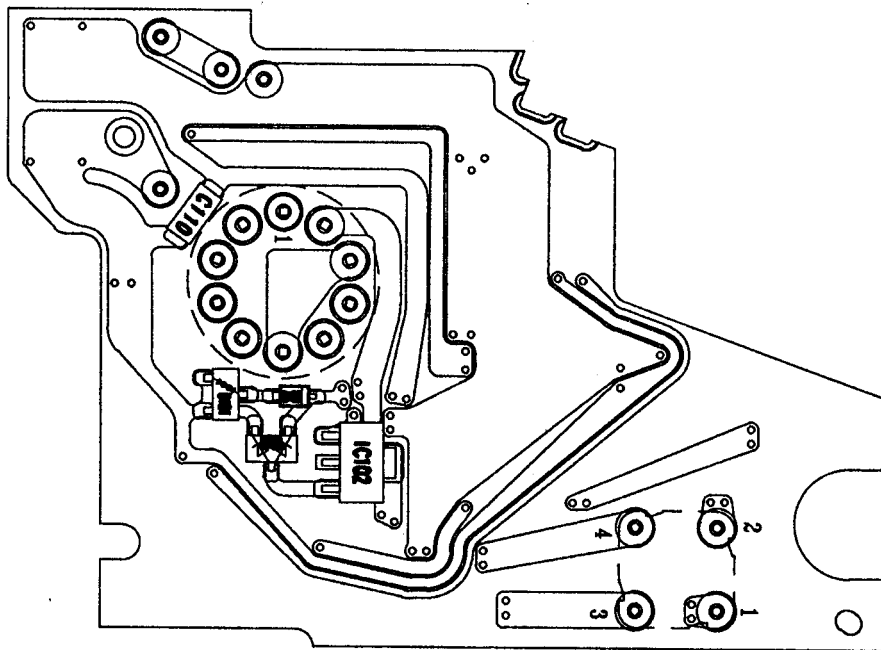
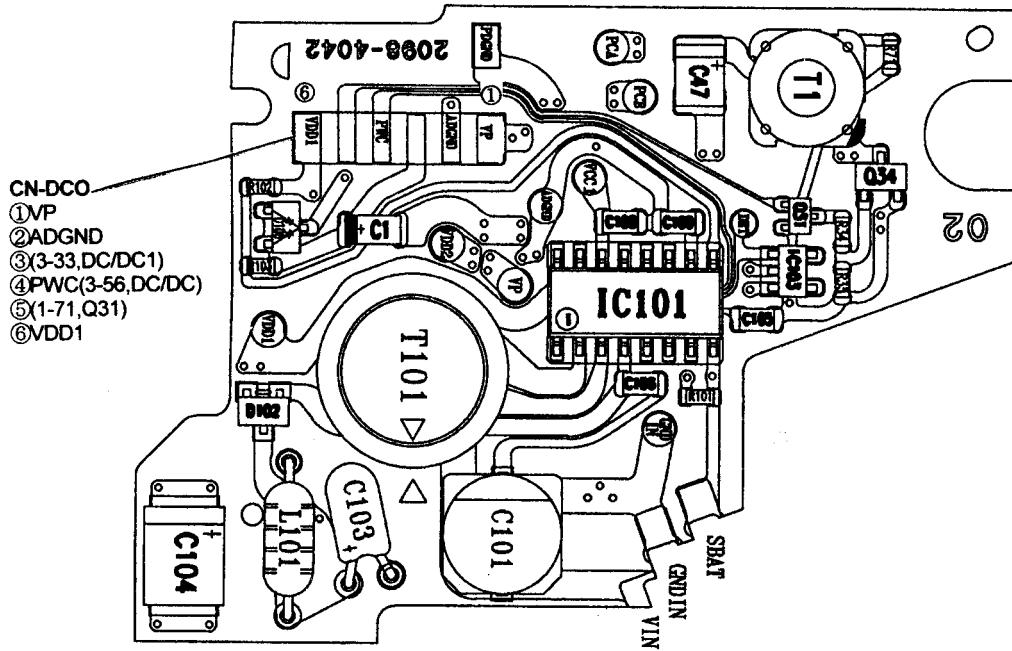
- FPC-A ASSY (0401)
■ Aフレキセット(0401)



- FPC-A ASSY (0401)
 ■ Aフレキセット(0401)

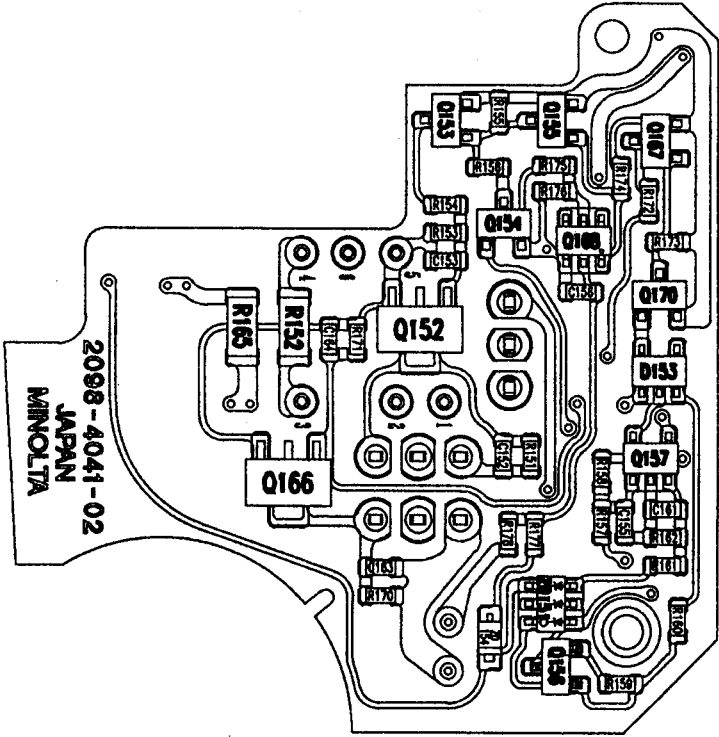
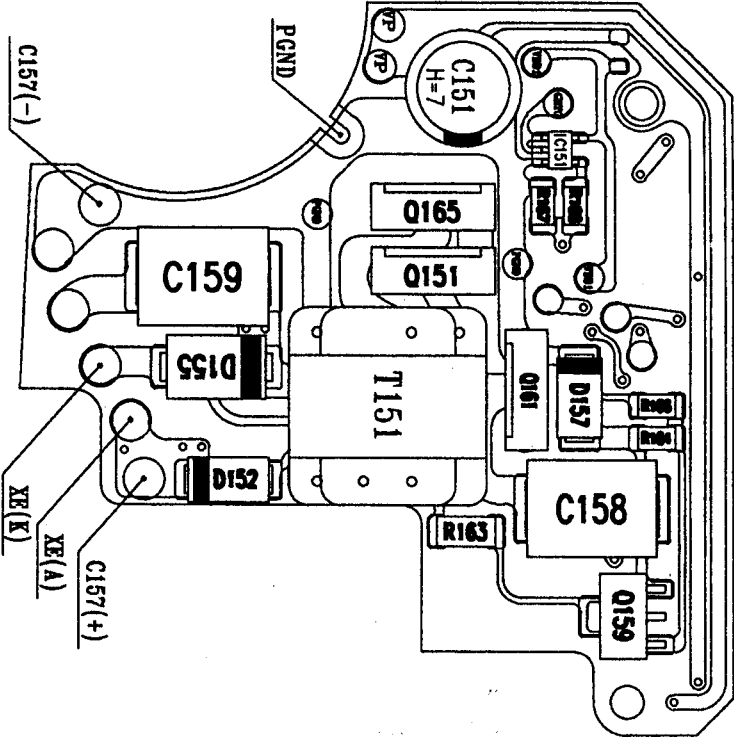


- DC/DC CONVERTER PBC ASSY (0444)
- DC/DCコンバーター基板セット(0444)



16 (2098)A

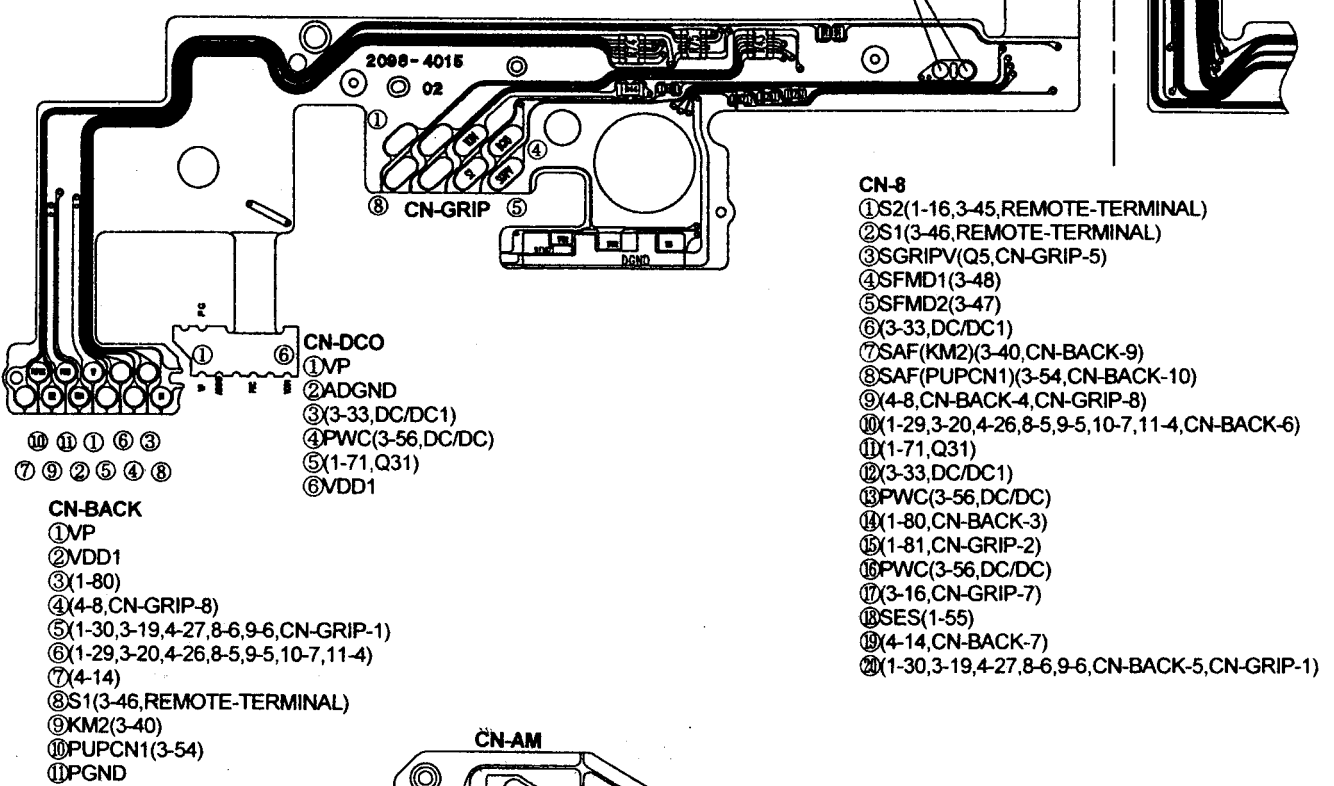
- FLASH PCB ASSY (0443)
- フラッシュ基板セット(0443)



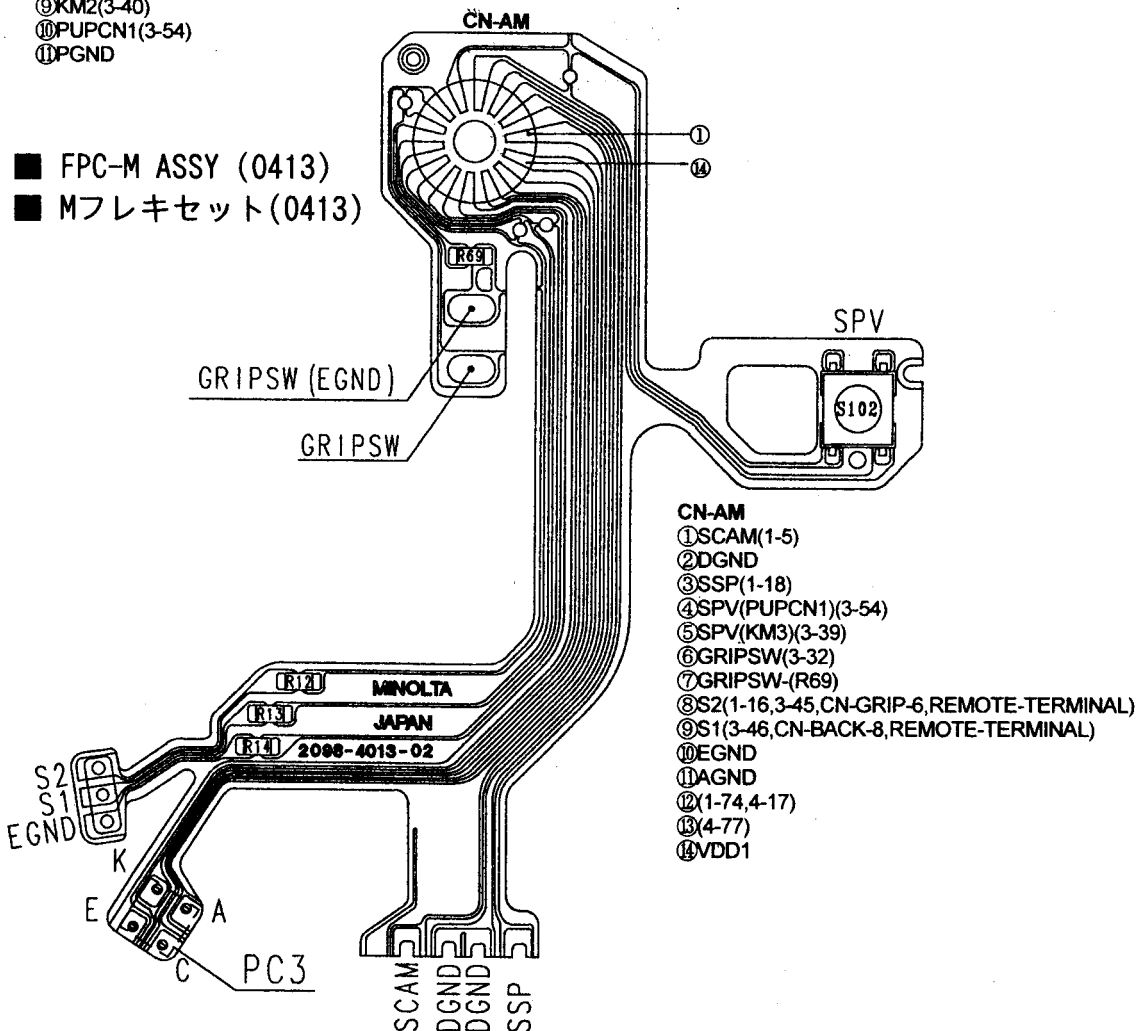
2098-4041-02
JAPAN
MINOLTA

■ FPC-O ASSY (0415)
■ 0フレキセット(0415)

- CN-GRIP**
①(1-30,3-19,4-27,8-6,9-6,CN-BACK-5)
②(1-81)
③VDD1
④DGND
⑤SGRPV(Q5)
⑥S2(1-16,3-45,REMOTE-TERMINAL)
⑦(3-16)
⑧(4-8,CN-BACK-4)

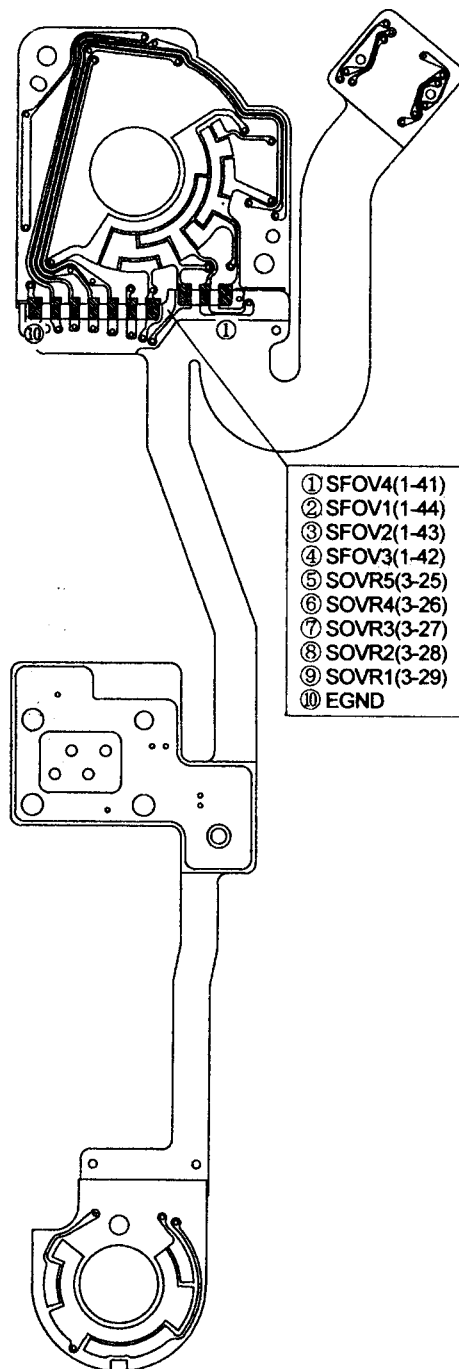
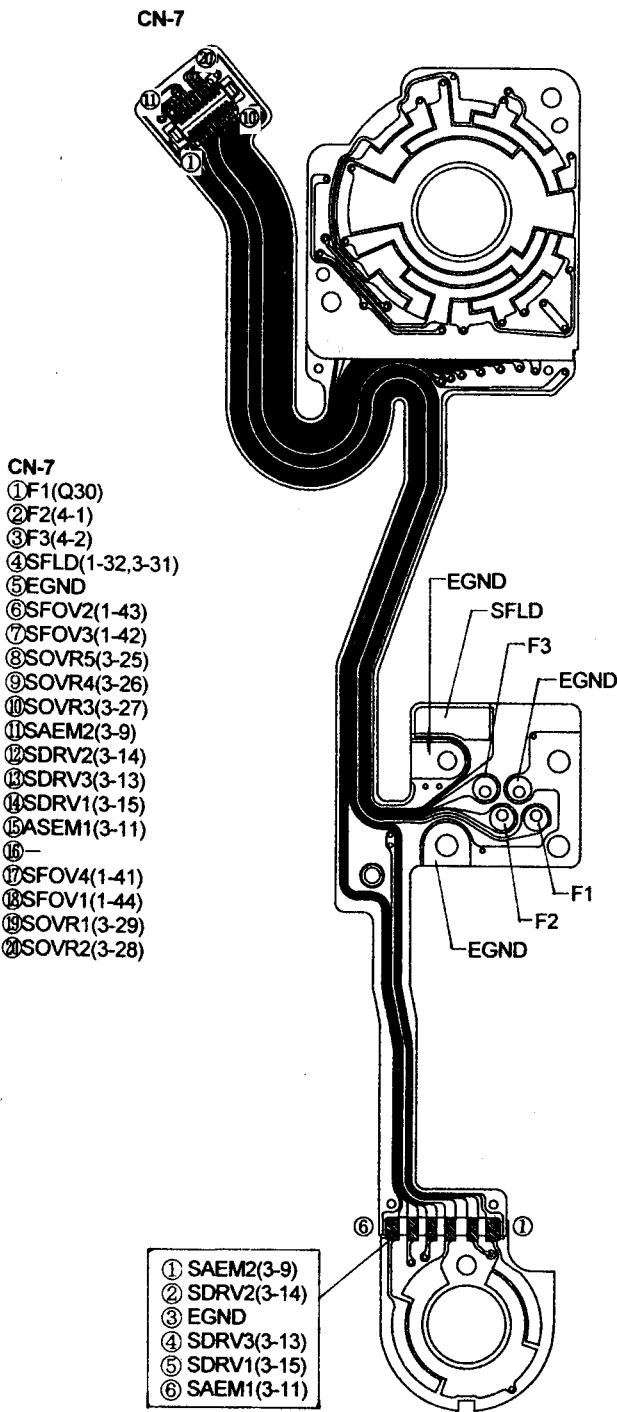


■ FPC-M ASSY (0413)
■ Mフレキセット(0413)

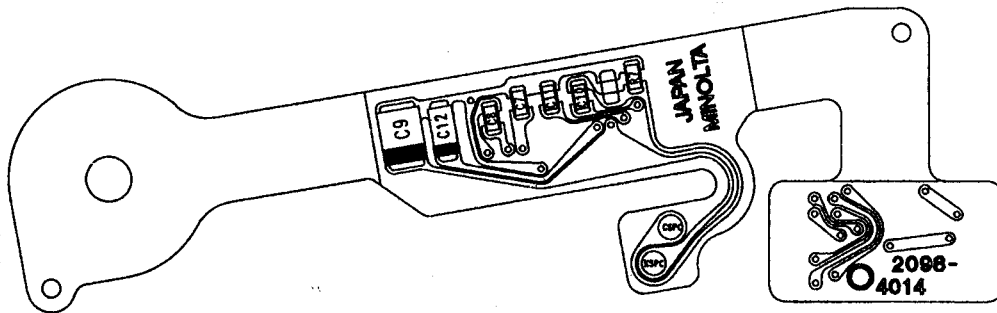
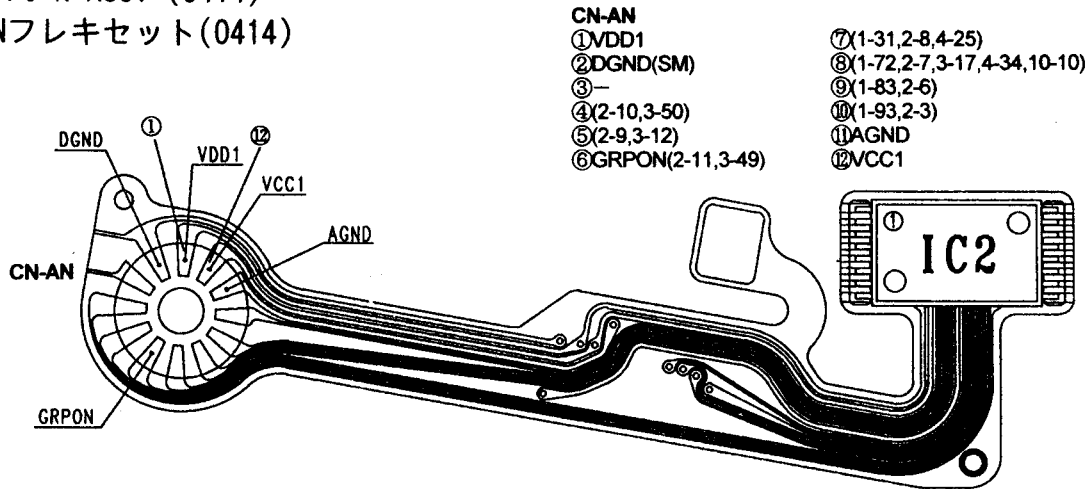


18 (2098)A

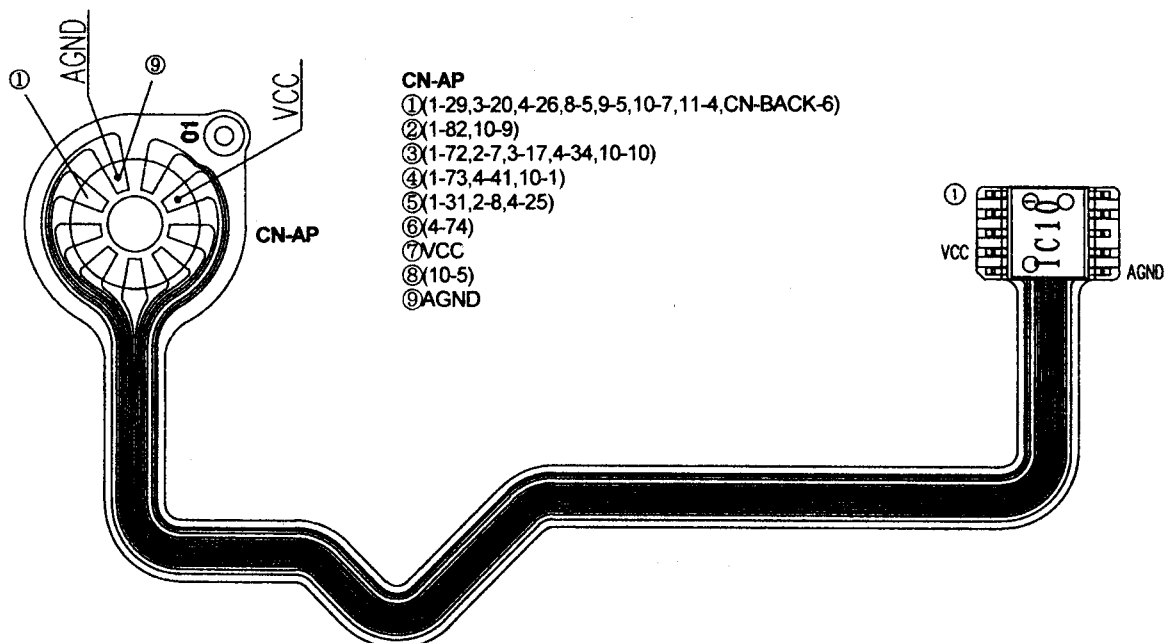
- FPC-H ASSY (0408)
- Hフレキセット(0408)



- FPC-N ASSY (0414)
- Nフレキセット(0414)



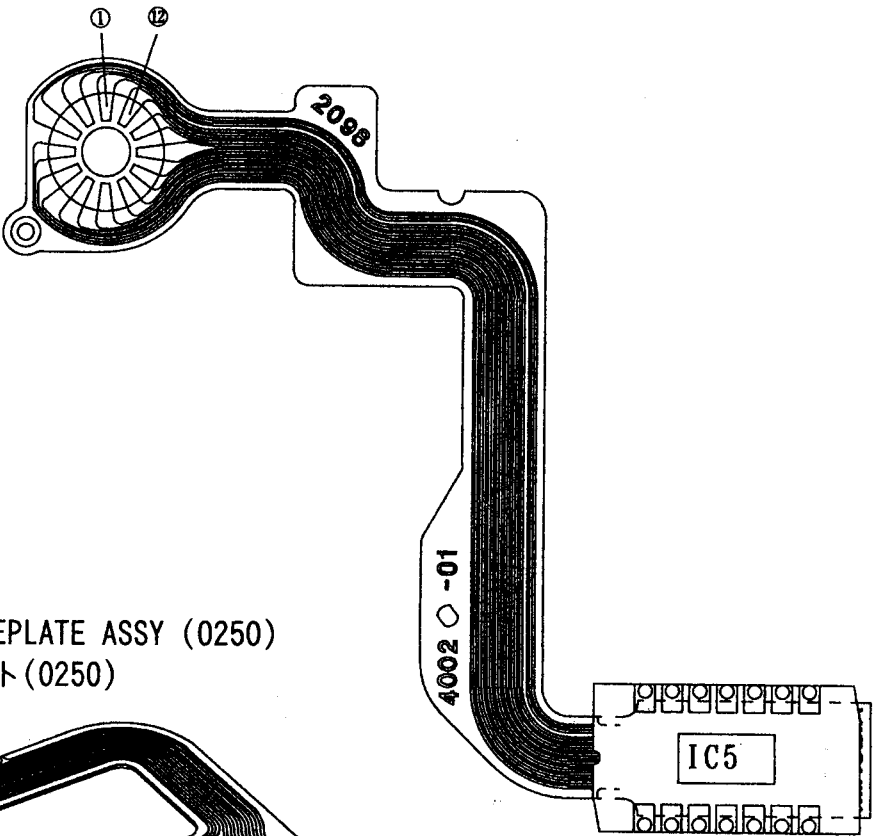
- SPC2 LENS HOLDER ASSY (0515)
- SPC2レンズホルダーセット(0515)



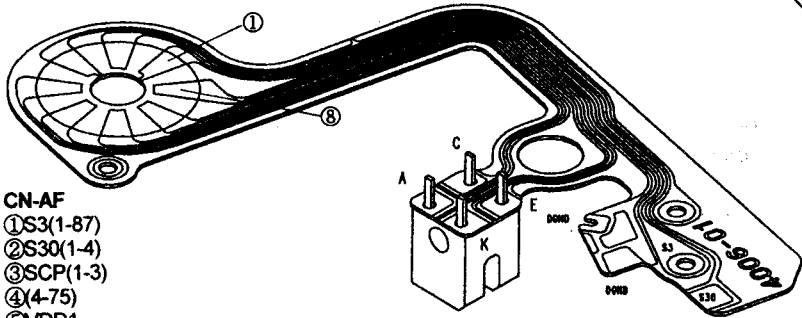
20 (2098)A

- FPC-B ASSY (0402)
- Bフレキシセット(0402)

- CN-AB
- ①VCC1
 - ②AGND
 - ③(1-95,5-14)
 - ④(1-48,5-1)
 - ⑤(1-49,5-2)
 - ⑥(1-50,5-3)
 - ⑦(1-47,5-4)
 - ⑧(1-51,5-5)
 - ⑨(1-52,5-6)
 - ⑩(3-23,5-7)
 - ⑪(1-17,1-98,5-8)
 - ⑫-

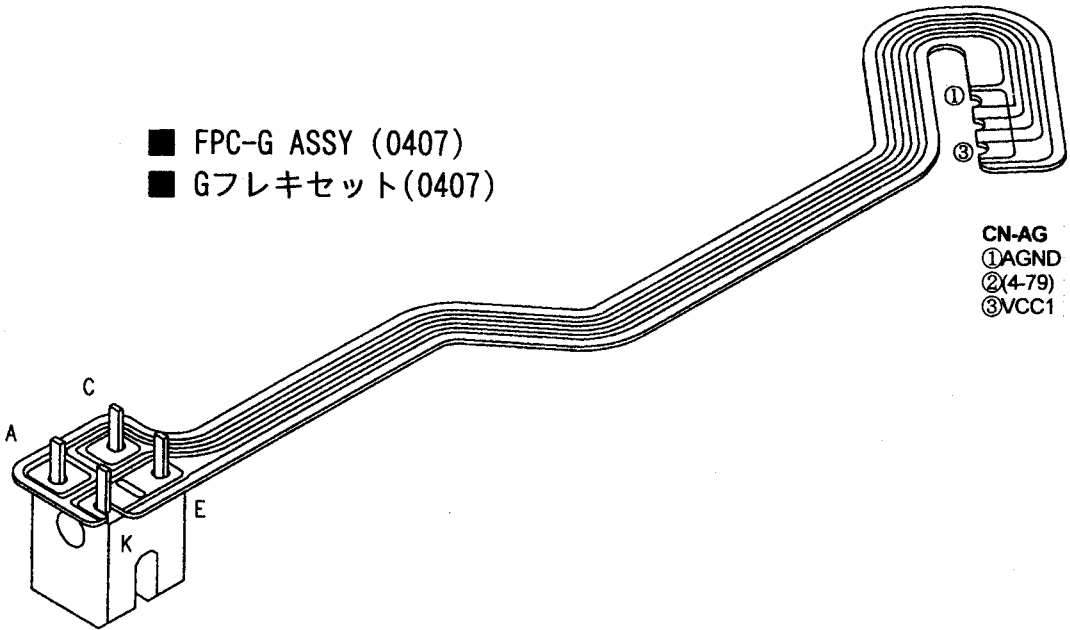


- APERTURE BASEPLATE ASSY (0250)
- 絞り台板セット(0250)



- CN-AF
- ①S3(1-87)
 - ②S30(1-4)
 - ③SCP(1-3)
 - ④(4-75)
 - ⑤VDD1
 - ⑥(1-76,4-28)
 - ⑦AGND
 - ⑧DGND

- FPC-G ASSY (0407)
- Gフレキシセット(0407)



- CN-AG
- ①AGND
 - ②(4-79)
 - ③VCC1

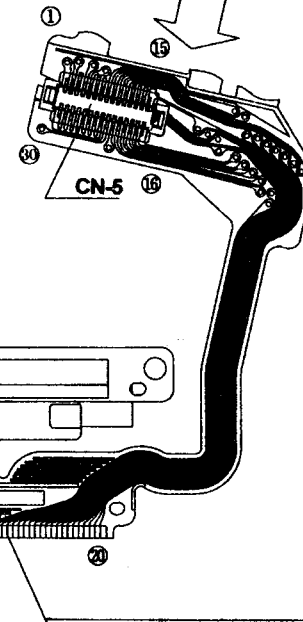
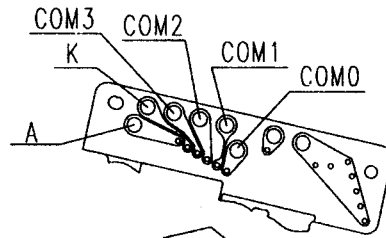
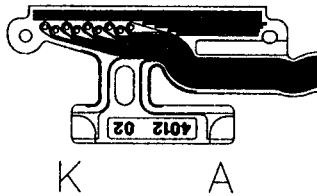
PC1

■ FPC-L ASSY (0412)

■ Lフレキシセット(0412)

CN-5

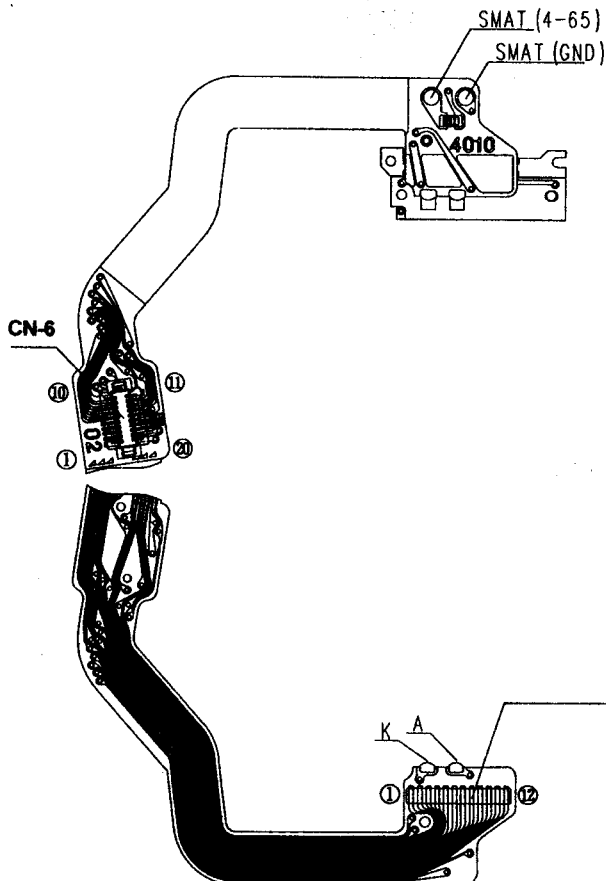
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|--------------|--------------|
| ①COM3(3-92) | ⑩SEG9(3-79) |
| ②COM2(3-93) | ⑪SEG10(3-78) |
| ③COM1(3-94) | ⑫SEG11(3-77) |
| ④COM0(3-95) | ⑬SEG17(3-71) |
| ⑤SEG20(3-68) | ⑭SEG16(3-72) |
| ⑥SEG21(3-67) | ⑮A |
| ⑦SEG0(3-88) | ⑯K |
| ⑧SEG1(3-87) | ⑰- |
| ⑨SEG2(3-86) | ⑱- |
| ⑩SEG3(3-85) | ⑲- |
| ⑪SEG4(3-84) | ⑳- |
| ⑫SEG5(3-83) | ㉑- |
| ⑬SEG6(3-82) | ㉒- |
| ⑭SEG7(3-81) | ㉓- |
| ⑮SEG8(3-80) | ㉔- |



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|--------------|
| ①COM3(3-92) |
| ②COM2(3-93) |
| ③COM1(3-94) |
| ④COM0(3-95) |
| ⑤SEG20(3-68) |
| ⑥SEG21(3-67) |
| ⑦SEG0(3-88) |
| ⑧SEG1(3-87) |
| ⑨SEG2(3-86) |
| ⑩SEG3(3-85) |
| ⑪SEG4(3-84) |
| ⑫SEG5(3-83) |
| ⑬SEG6(3-82) |
| ⑭SEG7(3-81) |
| ⑮SEG8(3-80) |
| ⑯SEG9(3-79) |
| ⑰SEG10(3-78) |
| ⑱SEG11(3-77) |
| ⑲SEG17(3-71) |
| ⑳SEG18(3-72) |

■ PENTA-PRISM ASSY (0580)

■ ペンタブロックセット(0580)

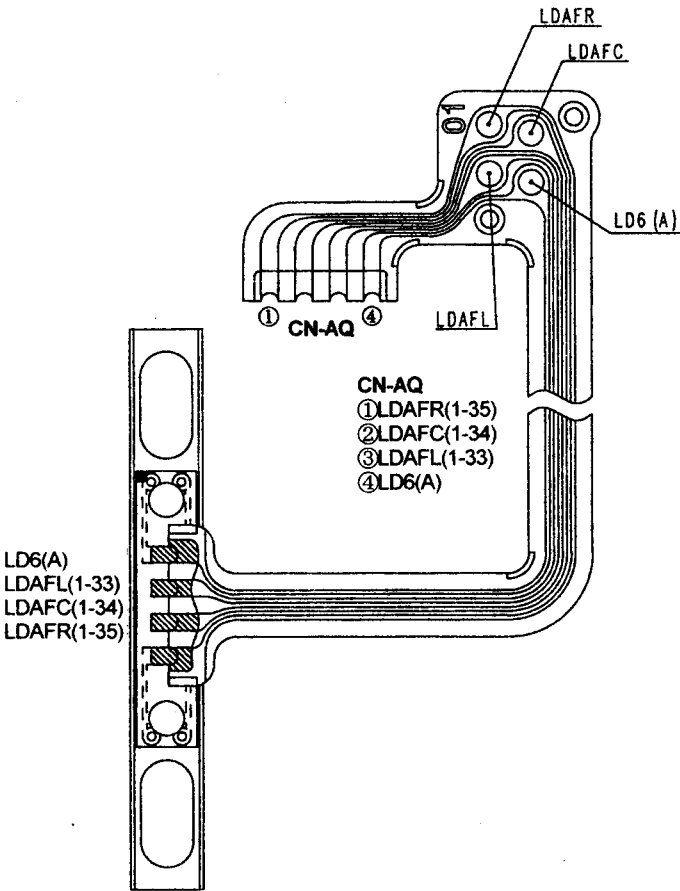


CN-6

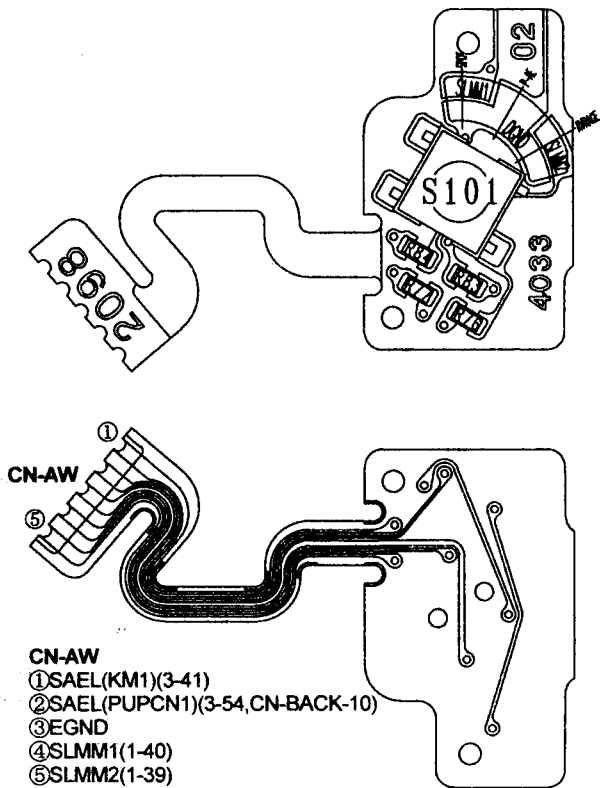
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| ①SEG22(3-66) | ⑪COM1(3-94) |
| ②SEG23(3-65) | ⑫COM0(3-95) |
| ③SEG24(3-64) | ⑬A |
| ④SEG25(3-63) | ⑭K |
| ⑤SEG26(3-62) | ⑮- |
| ⑥SEG27(3-61) | ⑯- |
| ⑦SEG28(3-60) | ⑰- |
| ⑧SEG29(3-59) | ⑱- |
| ⑨COM3(3-92) | ⑲R62 |
| ⑩COM2(3-93) | ⑳SMAT(GND) |

- | |
|--------------|
| ①SEG22(3-66) |
| ②SEG23(3-65) |
| ③SEG24(3-64) |
| ④SEG25(3-63) |
| ⑤SEG26(3-62) |
| ⑥SEG27(3-61) |
| ⑦SEG28(3-60) |
| ⑧SEG29(3-59) |
| ⑨COM3(3-92) |
| ⑩COM2(3-93) |
| ⑪COM1(3-94) |
| ⑫COM0(3-95) |

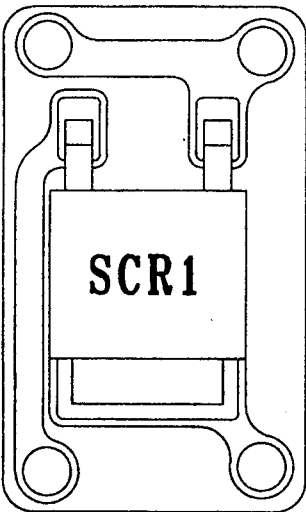
- FPC-Q (4017)
- Qフレキ(4017)



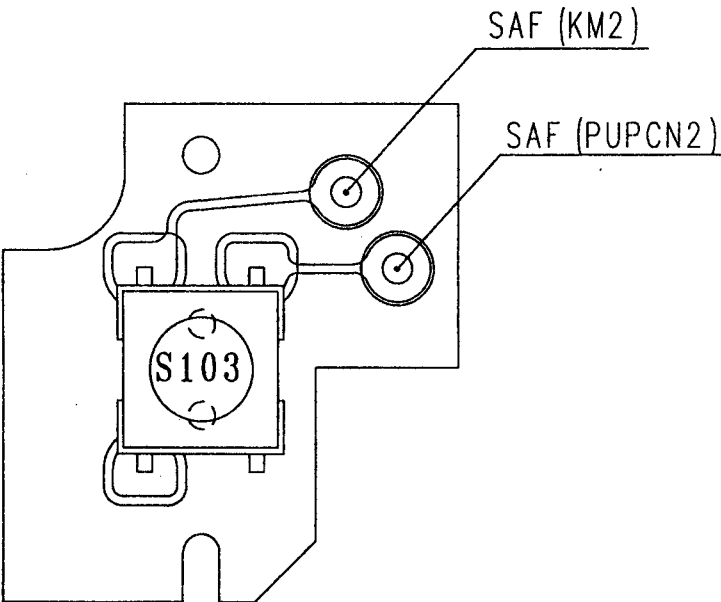
- FPC-W ASSY (0433)
- Wフレキセット(0433)



- FPC-S ASSY (0419)
- Sフレキセット(0419)

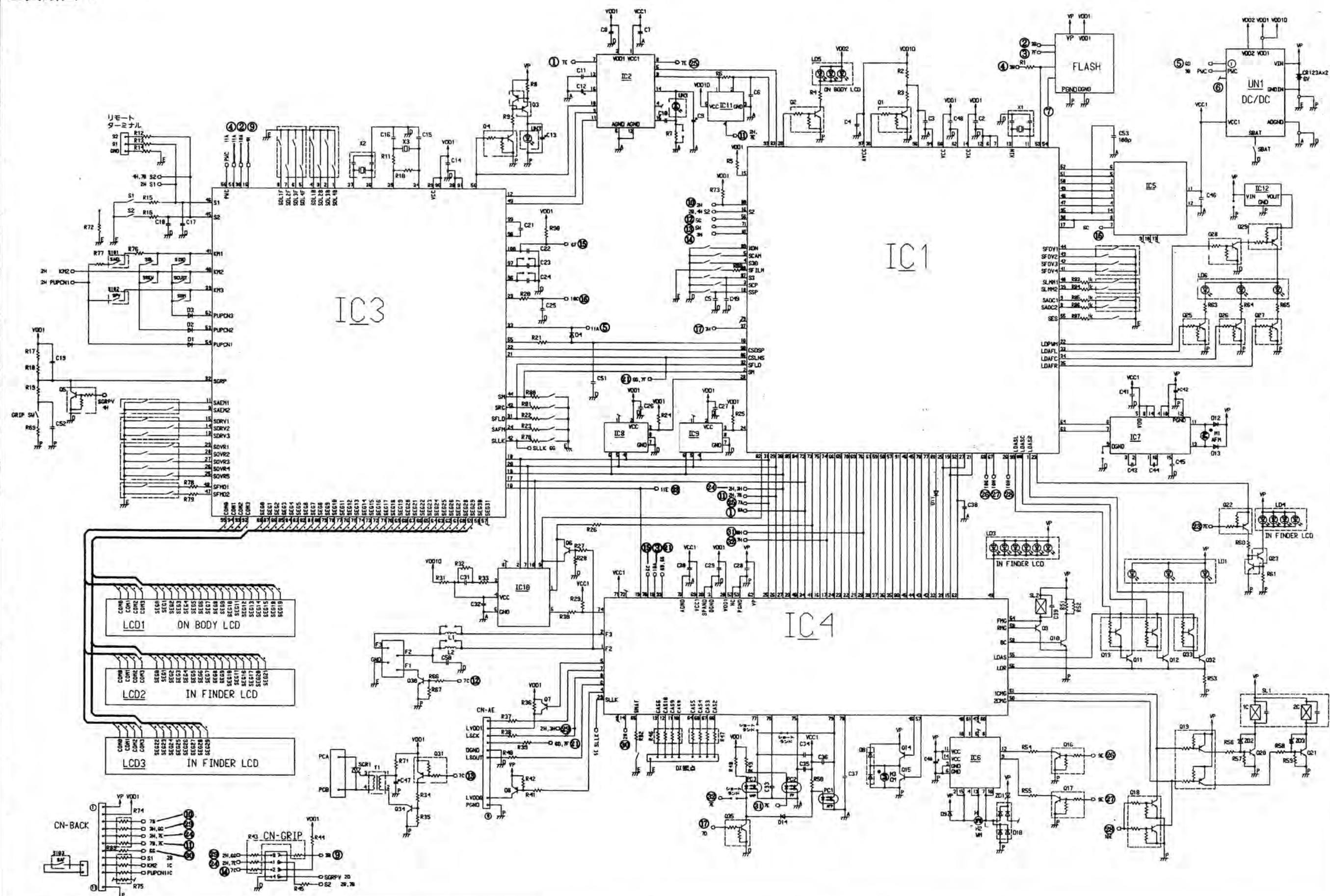


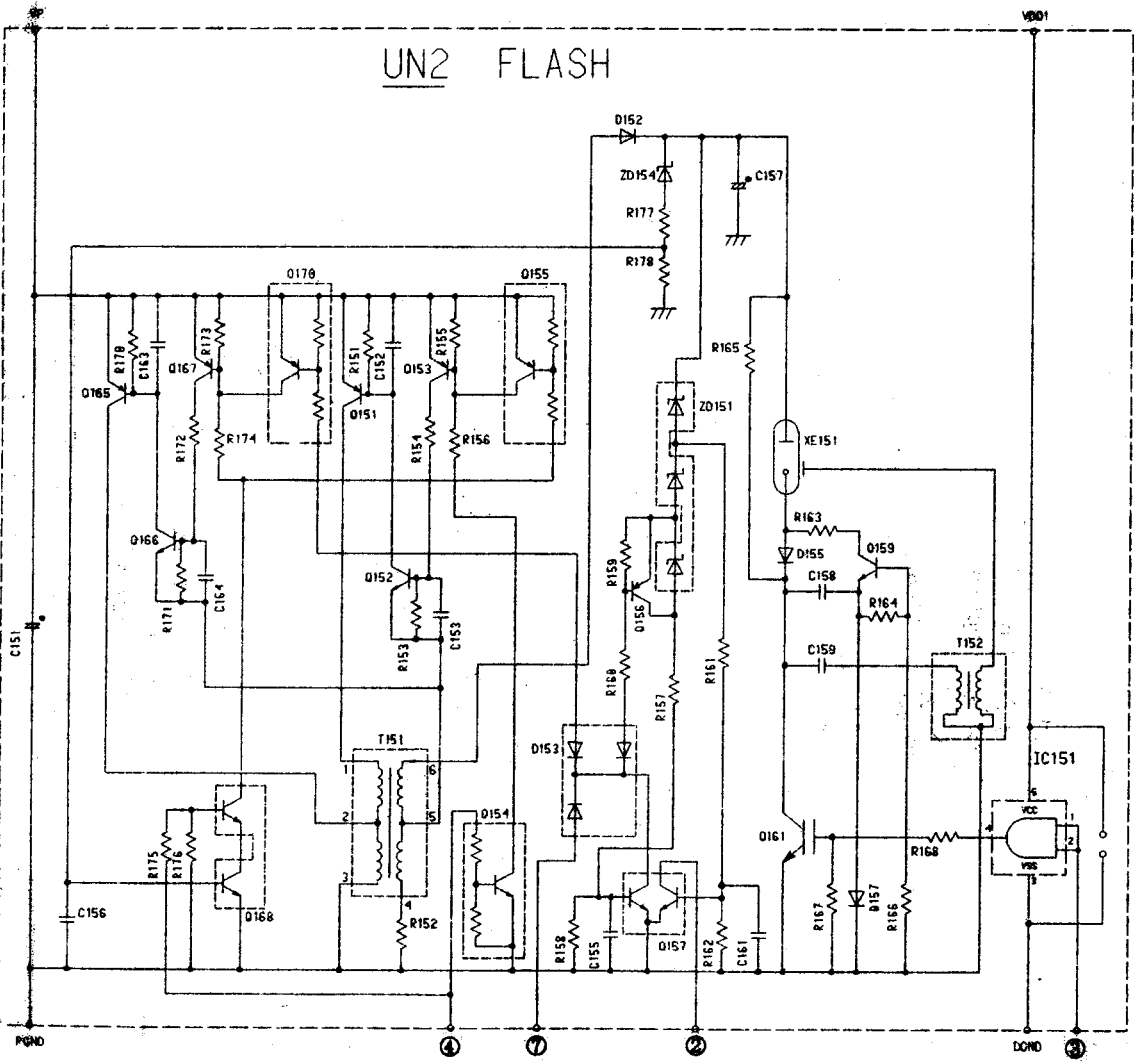
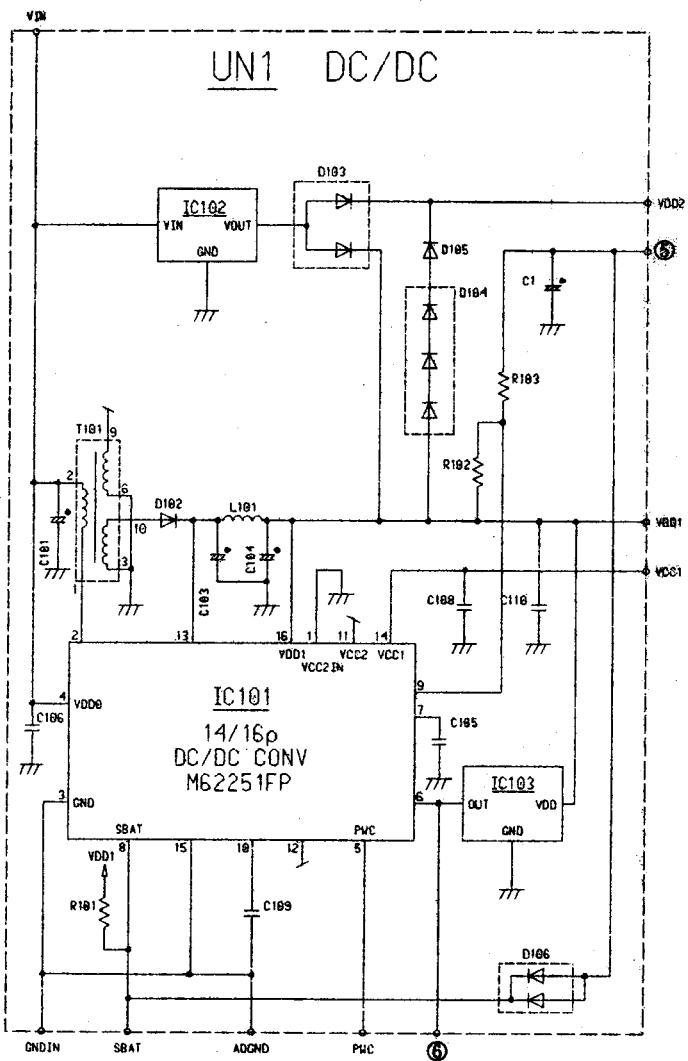
- AF BUTTON PCB ASSY (0420)
- AF釦基板セット(0420)



Circuit Diagram 1

回路図 1





■ Adjustments & Checks after repair

■ After making replacement or repair of the following items, check or adjust as required in the table.

☆ : Necessary check ★ : Necessary adjustment

Parts Item	Mirror box		Shutter Assy	FPC-A Assy		FPC-B Assy	DC/DC Converter Assy
	Removed	Replaced	Removed	Replaced		Removed	Replaced
				———	Data Copy		
Body Back	☆	★	☆	☆	☆	☆	
Viewfinder Back	☆	★	☆	☆	☆	☆	
Field of View	★	★	★			★	
AF Area LED Position	★	★	★			★	
1/8000 SS		☆	★	★			
Manual SS		☆	★	★			
SPC Position		★		★	★		
AE		☆	☆	★	★		
Aperture Preset		★		★			
Flash SPC Level		★		★			
Flash Level		★		★			
Pre-Flash Level				★			
Wireless Flash Level				★			
Frame Position				★			
AF	☆	★	☆	★	☆	★	
B.C. Lock Voltage				★	★		★
Model selection				★(*1)	★(*1)		

*1 Always necessary only when replaced with #2098-0901.

Parts Item	Flash PCB Assy	Winding Baseplate Assy	AF Motor Baseplate Assy	Aperture Baseplate Assy	Flash Assy	Penta-Prism Assy	Eyepiece Lens Holder Assy
	Replaced	Replaced	Removed	Replaced	Replaced	Removed	Removed
Body Back			☆	☆			
Viewfinder Back			☆	☆		★	
Field of View			★	★		★	
AF Area LED Position			★	★		★	
1/8000 SS							
Manual SS							
SPC Position							★
AE						★	★
Aperture Preset				★			
Flash SPC Level	★						
Flash Level	★				★		
Pre-Flash Level	★				★		
Wireless Flash Level	★				★		
Frame Position		★					
AF			★	☆		☆	
B.C. Lock Voltage							
Model selection							

■ Default FPC-A #0401 setting

- Flash charge inhibited
- Erratic display in Data Panel.

※Flash level adjustment (P. 49) will reset these settings. If the flash level adjustment doesn't reset these settings, check for troubles other than FPC-A Assy.

■ About Data Copy; Adjustment data (P. 59)

- Data Copy of adjustment data enables you to skip some adjustment/check items after FPC-A Assy #0401 replacement. The data can be transferred from the original FPC-A Assy to the newly installed one.
- Data Copy is available even when the camera is inoperative for any reason except for;
 - Faulty IC-1 (Defective element, or poor soldering)
 - Trouble in power supply line (in Main FPC Assy)
 - Signal transmit failure (Such as disconnection or insufficient contact).

■ About Data Copy; Photographic data (P. 60)

- Data Copy of photographic data enables you to transfer data in memory from original FPC-A Assy to the newly installed one. The Data Copy of photographic data requires DM-9 #8789 and SmartMedia Card.
- Photographic data items can be copied;
 - All areas of Memory
 - Customized setting
 - Adjust setting
 - Manual ISO setting
- *No adjustment data, accumulated number of shutter-release, or error code can be copied.
- Data Copy is available even when the camera is inoperative for any reason except for;
 - Faulty IC-1 (Defective element, or poor soldering)
 - Trouble in power supply line (in Main FPC Assy)
 - Signal transmit failure (Such as disconnection or insufficient contact).

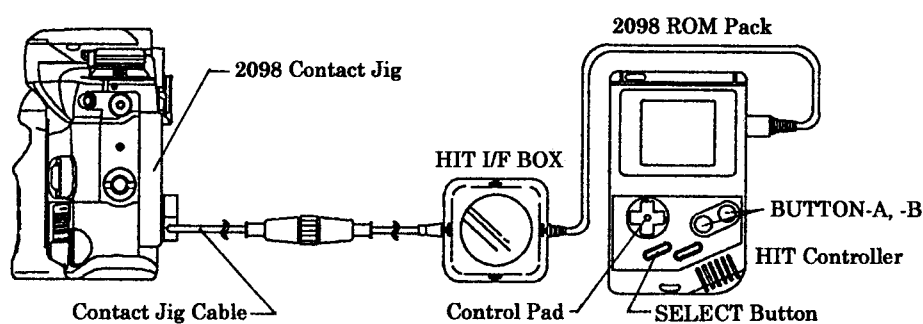
■ Preparation before adjustment-1 (HIT system setup)

■ Set up and basic operation

※Before attaching 2098 Contact Jig to or detaching from the camera, be sure to remove power supply from the camera and turn off HIT Controller. (In case of making a Data Copy of adjustment data, keep the controller activated.)

1. Attach Contact Jig to the camera so that the probes of the jig properly make contact with the check lands. (Fig. 1)
2. Set up the equipment as in Fig. 1
3. Power the camera, then turn on the camera and HIT Controller. Main menu will appear in HIT Controller display. (Fig. 2)
4. Select an item with Control Pad. The selected item appear in a black box. Then press SELECT Button to enter.

■ Fig. 1



■ Fig. 2

2098 ADJ. PROGRAM
BC-LOCK ADJ.
AE ADJ.
SS ADJ.
PRETRIGGER ADJ.
FLASH ADJ.
AF ADJ.
FRAME ADJ.
ASSIST MODE

■ Adjustment/Check items available with 2098 ROM PACK

<Main Menu>

BC-LOCK ADJ. (P. 53)

AE ADJ.

AE ADJ. (P. 46)

AE CHECK (P. 46)

SPC ADJ. (P. 45)

SS ADJ. (P. 44)

PRETRIGGER ADJ. (P. 47)

FLASH ADJ.

FL-SPC LEVEL ADJ. (P. 48)

FL-SPC LEVEL CHECK (P. 48)

FLASH LEVEL ADJ. (P. 49)

FLASH LEVEL CHECK (P. 49)

PREFIRE ADJ. (P. 50)

W-LESSFIRE ADJ. (P. 51)

AF ADJ.

AREA ADJ. (P. 55)

PITCH, YAW ADJ. (P. 56)

EZ ADJ. (P. 57)

EZ CHECK (P. 57)

FRAME ADJ. (P. 52)

ASSIST MODE (P. 58)

MODEL SET (P. 58)

DATA COPY (P. 59)

TROUBLE CODE (P. 7, Trouble-shooting)

SW. CHECK (P. 6, Trouble-shooting)

FLASH CHARGE ON/OFF (P. 3)

ONE PUSH AF (P. 1-2, Supplementary Info.)

FOCUS LED ADJ. (P. 5, Supplementary Info.)

■ Body Back Adjustment

- Equipment required
- Body Back Gauge
 - Flat Plate A
 - Dial Gauge

■ Adjustment

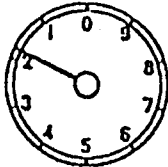
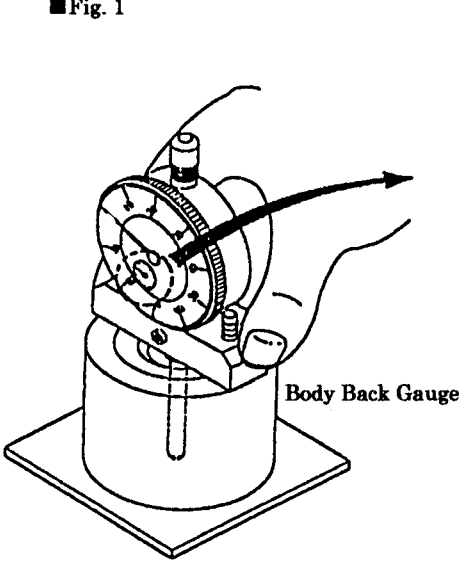
1. Set Dial Gauge as in Fig. 1.
 2. Measure distance between guide rail and Lens Mount surface as in Fig. 2.
 3. Check that the reading meets the standard.
If the reading is out of standard, adjust as follows.
 - Smaller than 44.685: Install washers beneath Bayonet Mount.
 - Larger than 44.715: Replace Lens Mount with #2072-1010-81, and install or remove washers.
- ※The flange of #2072-1010-81 is 0.1mm thinner than that of #2072-1010-02.

Washer

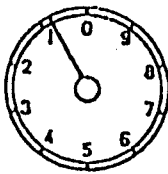
Parts	2005-1061-81	2005-1062-81	2005-1063-81
Height (mm)	0.02	0.05	0.10

Standard 44.700+/-0.015

■ Fig. 1

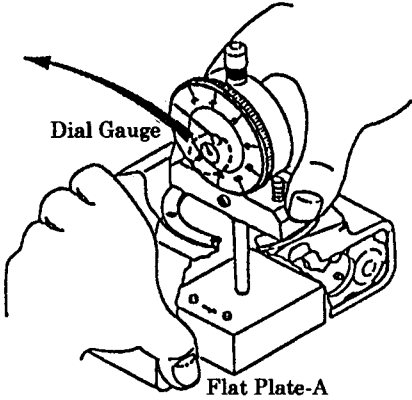


43.70mm



44.70mm

■ Fig. 2



■ Viewfinder Back Adjustment

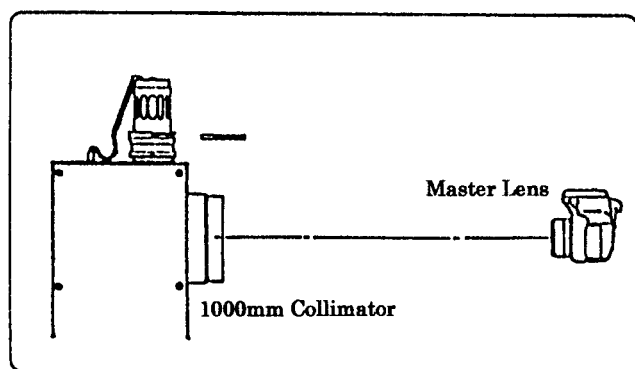
■ Equipment required

1000mm Collimator
Master Lens
Hexagon Wrench (1.5)

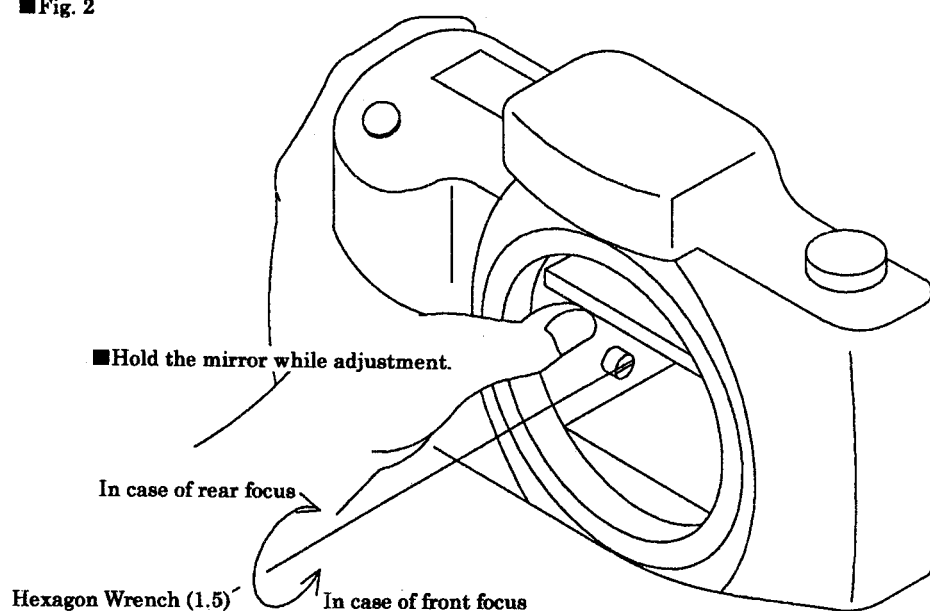
■ Adjustment

1. Set the camera as in Fig. 1 so that the chart is at the center of viewfinder. Set Master Lens to infinity (∞) as in Fig. 1.
2. Check that the chart is in focus. If not, remove the lens and adjust Mirror Stopper position as in Fig. 2.
3. Release the shutter several times and check that the chart is in focus at infinity (∞).

■ Fig. 1



■ Fig. 2



■ AE Level Check

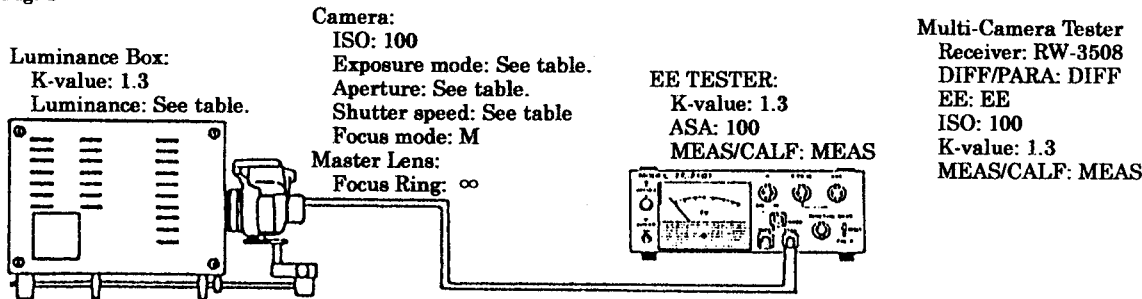
■ Equipment required

Luminance Box, EE Tester
OR Multi-Camera Tester
Master Lens

■ Check

1. Set the equipment as in Fig. 1.
2. Set luminance and camera setting according to the table below. Release the shutter for each setting from step-1 to -8, and check that the reading is within the tolerance.

■ Fig. 1



Step	Luminance *	Exposure mode	SS (ms)	Aperture	Tolerance
1	EV6 (EV5)	A	————	F5.6 (F8)	0±1.0EV
2	EV10 (EV11)				
3	EV15 (EV15)				
4	EV6 (EV5)	P	————	————	
5	EV10 (EV11)				
6	EV15 (EV15)				
7	EV10 (EV11)	S	1/125	————	
8			1/30		

*Apply value in brackets () for Luminance Box MODEL L-222, L-223.

■ Aperture Control Check

■ Equipment required

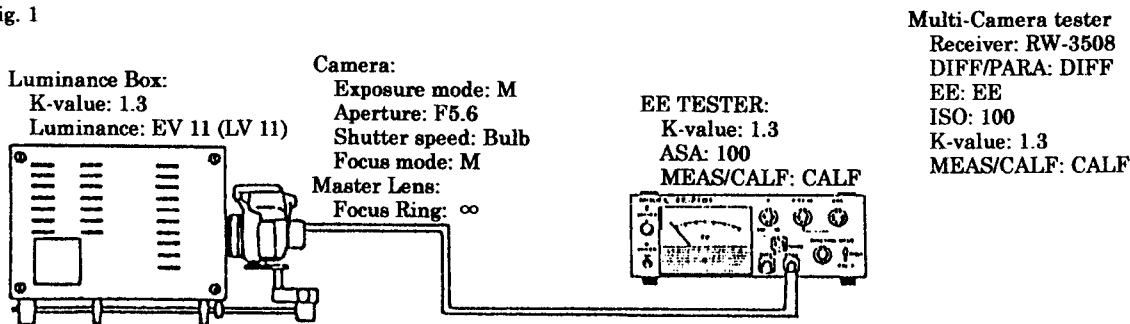
Luminance Box, EE Tester
OR Multi-Camera Tester
Master Lens

■ Check

1. Set the equipment as in Fig. 1
2. Release the shutter and check that the reading is within standard (0±0.3EV)
※Reading may be above/below this range depending on the lens' aperture tolerance.

Standard 0±0.3EV

■ Fig. 1



■ Manual SS & X-sync. Time-Lag Check

■ Equipment required

Shutter Tester
Sync.Cord

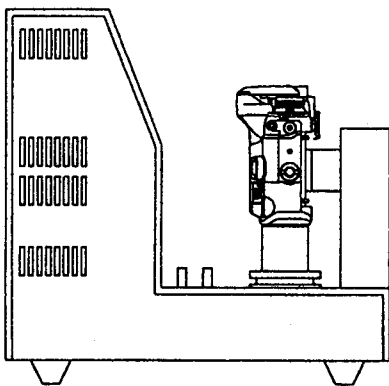
■ Manual SS Check

1. Set the equipment as in Fig. 1.
2. Release the shutter at each shutter speed, and check that the reading meets the table-1 below.

■ X Sync. Time-Lag Check

1. Set up the equipment as in Fig. 2. Set the shutter speed to 1/200.
2. Release the shutter and check that the reading meets the standard in table-2.

■ Fig. 1



■ Fig. 2

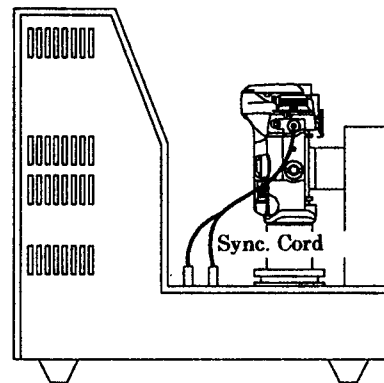


Table-1

SS (ms)	Standard at Range B (ms)	Tolerance at Range B (ms)	Unevenness of exposure
1/12000	0.086	0.055-0.135	Check difference between Max. and Min. reading with 1/12000 only. Reading of A, B, and C range should be in lined combination of Table-1 in page 43.
1/8000	0.122	0.083-0.179	
1/4000	0.244	0.179-0.334	
1/2000	0.488	0.370-0.664	
1/1000	0.977	0.740-1.289	
1/125	7.81	6.350-9.620	
1/2	500	467-536	

Table-2

SS (ms)	Item	Tolerance (ms)
1/300 (1/60)*	X-Sync. Delay time	0.35 or more
	From X-contact ON to rear curtain appearance	1.14 or more (3.5 or more)

* Apply value in brackets () for rear curtain sync.

■ Flash Level Check using strobe tester

■ Equipment required

Strobe Tester

Master Lens

Xi series FLASH (PROGRAM/MAXXUM)

Reflection paper

Film (Kodacolor Gold 100 exposed in a room for more than 1 day)

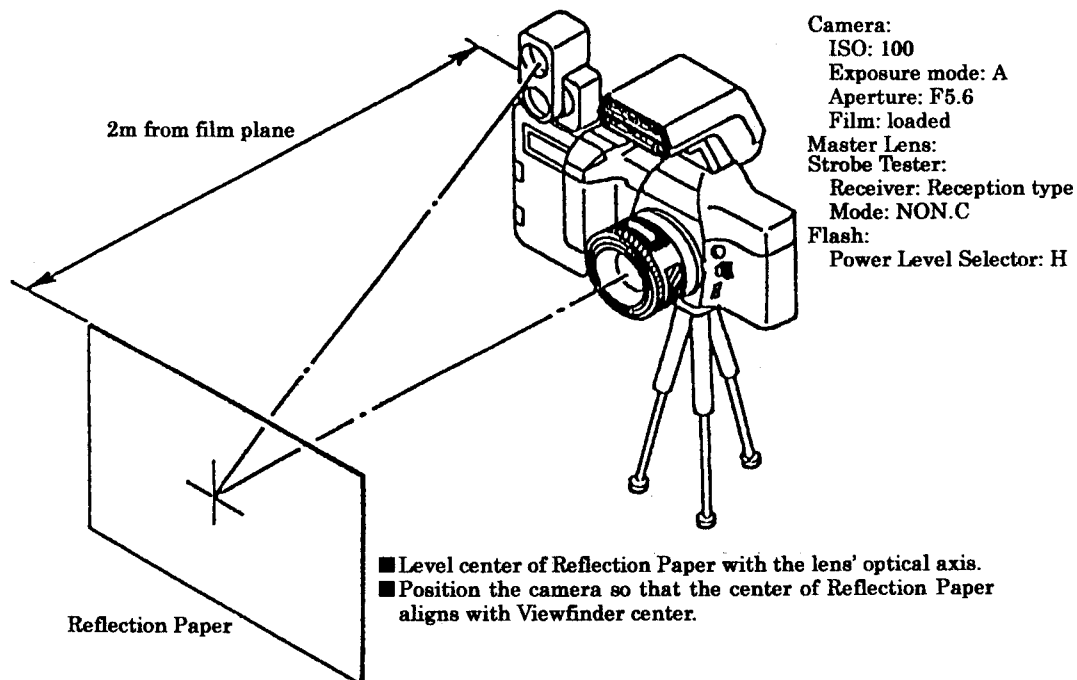
■ Check

* Perform in a dark room.

1. Set the equipment as in Fig. 1.
2. Turn the flash on and check that the flash ready signal glows.
3. Hold Strobe Tester beside the camera so that its viewfinder center aligns with that of Reflection Paper. (Fig. 1)
4. Press Strobe Tester's measuring button to set to stand-by; "NON.C" blinks. Then release the shutter.
5. Check that the reading is within standard.

Standard: $f/2.8+0.85EV - f/4 +0.85EV$

■ Fig. 1



Field of View Adjustment

* Check with Front Cover removed.

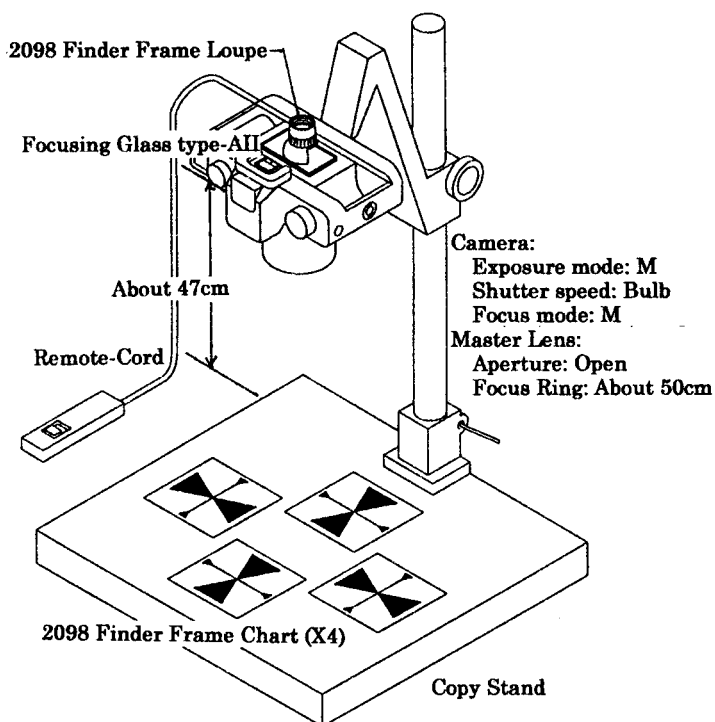
Equipment required

2098 Finder Frame Screen
 2098 Finder Frame Loupe
 2098 Finder Frame Chart (X4)
 Focusing Glass type-A II
 Copy Stand
 Remote-Cord RC1000
 Master Lens

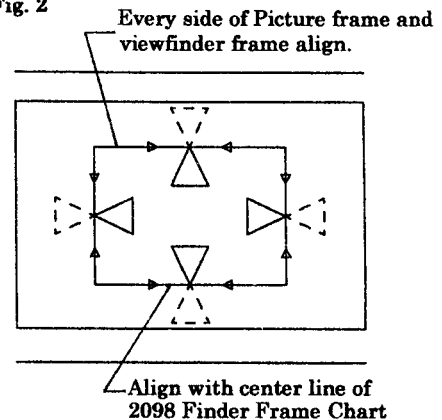
Adjustment

1. Replace Focusing Screen with 2098 Finder Frame Screen.
2. Set up the equipment as in Fig. 1.
3. Attach Focusing Glass type-A II and 2098 Finder Frame Loupe to picture frame. And keep shutter open at "bulb" with Remote Cord.
4. Looking through 2098 Finder Frame Loupe, align 4 of each 2098 Finder Frame Chart with every side of picture frame. (Fig. 2)
5. Release the shutter.
6. Looking through the viewfinder, adjust 3 screws (Fig. 3) so that every side of viewfinder frame align with 2098 Finder Frame Chart (X4).
7. Repeat from step-3 to step-6 until picture frame and viewfinder frame align.
8. Apply B-60 to adjusted screws. (Fig. 3)
9. Replace 2098 Finder Frame Screen with original Focusing Screen.

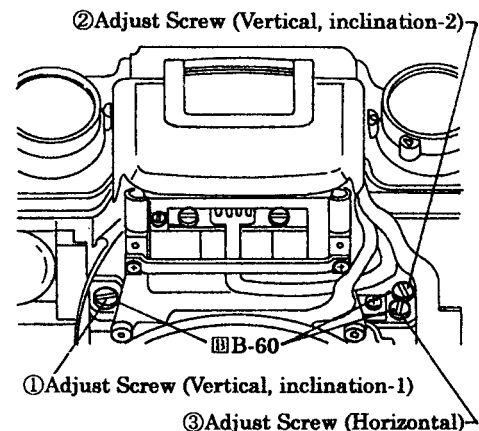
■ Fig. 1



■ Fig. 2



■ Fig. 3



Focus Area LED Check & Adjustment

*Perform check with complete camera. But remove Front Cover for adjustment.

Equipment required

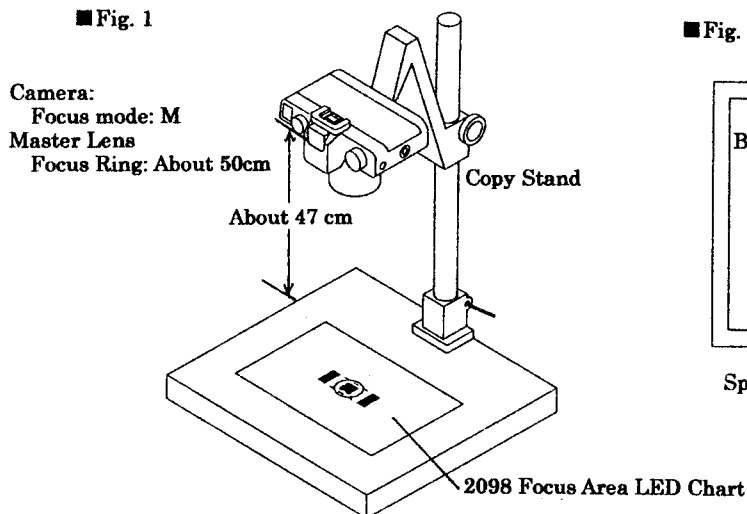
2098 Focus Area LED Chart
Master Lens
Copy Stand

Check

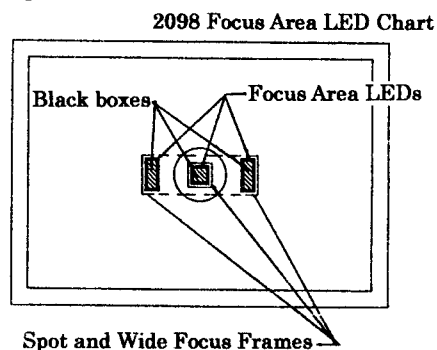
1. Set up the equipment as in Fig. 1.
2. Looking through viewfinder, align spot and wide focus frames with frames on 2098 Focus Area LED Chart. (Fig. 2)
3. Pressing and holding AF Button, turn Front Control Dial so that all Focus Area LEDs are on.
4. Keep pressing and holding AF Button, check that all LEDs light in position of black box in the chart.

* If not, perform adjustment below.

■ Fig. 1



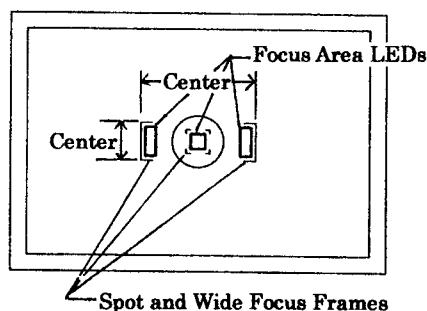
■ Fig. 2



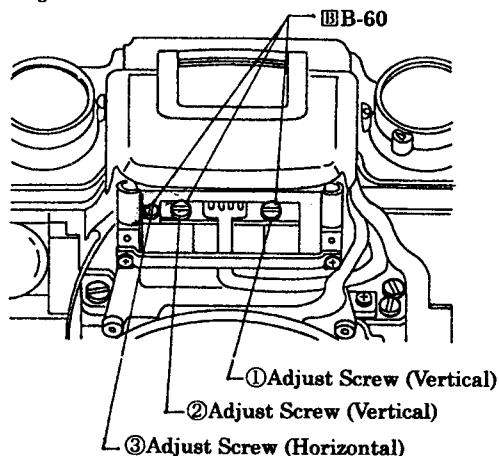
Adjustment

1. Turn all LEDs and LCD displays on;
Slide Main Switch to ON. Pressing and holding Manual-Rewind Button, insert batteries.
(To cancel all segments on, re-install the batteries.)
2. Looking through viewfinder, adjust 3 screws (Fig. 4) so that all sets of Focus Area LEDs are in center of spot and wide focus frames.
3. Apply B-60 to the screws. (Fig. 4).

■ Fig. 3



■ Fig. 4



1/12000 SS Check & Adjustment

- * Before adjustment, remove external parts including Top Cover Assy. And temporarily install Bottom Cover Assy and Shutter-Button Cover Assy. Instead of temporarily installing Shutter-Button Cover, using Remote-Cord is available.
- * After completing this adjustment, always perform Manual Set SS Adjustment (pg. 44).

Equipment required

- Shutter Tester
- Hexagon Bar Wrench
- Remote Cord RC-1000

Check

1. Set up the equipment as in Fig. 1. And set shutter speed to 1/12000 sec.
2. Release the shutter and check that the reading at range A, B and C are in lined combination as in table below. * If not, adjust as below.

Adjustment

3. Remove external parts including Top Cover Assy. And temporarily install Bottom Cover Assy.
 4. Adjust 2C-Adjust Screw with Hexagon Bar Wrench (Fig. 1) so that the reading are in correct combination.
- * Do not check the reading with the bar wrench attached to the screw. Wrong reading may be obtained.

Fig. 1 *After removing Top Cover Assy, exposure mode is in "M mode".

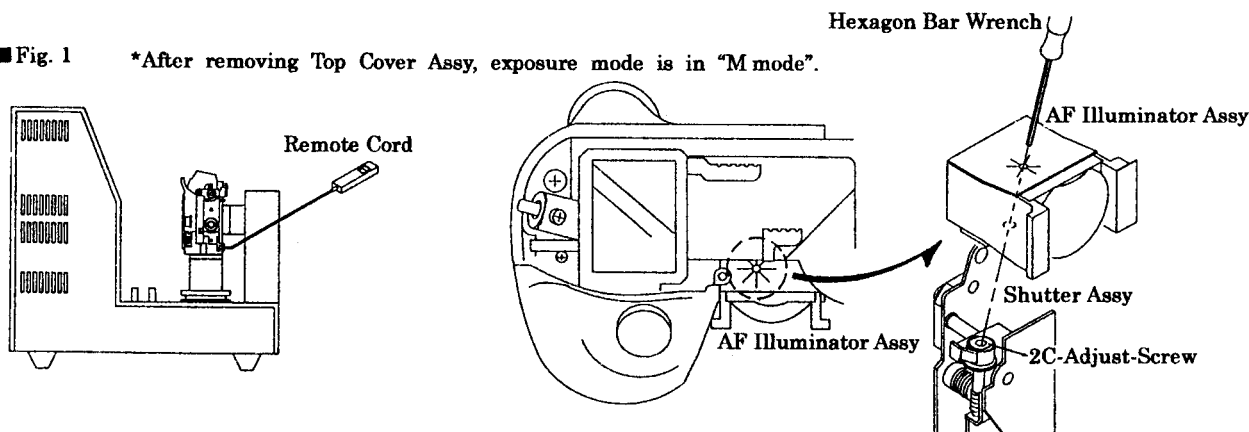


Table-1

A Range	B Range	C Range
0.074－0.097	0.045－0.050	0.024－0.046
0.078－0.104	0.050－0.055	0.028－0.053
0.082－0.111	0.055－0.060	0.032－0.060
0.086－0.118	0.060－0.065	0.036－0.067
0.090－0.125	0.065－0.070	0.040－0.075
0.094－0.132	0.070－0.075	0.044－0.082
0.098－0.139	0.075－0.080	0.048－0.089
0.102－0.146	0.080－0.085	0.052－0.096
0.106－0.153	0.085－0.090	0.056－0.103
0.110－0.160	0.090－0.095	0.060－0.110
0.114－0.167	0.095－0.100	0.064－0.117
0.118－0.174	0.100－0.105	0.068－0.124
0.122－0.181	0.105－0.110	0.072－0.131
0.126－0.188	0.110－0.115	0.076－0.138
0.130－0.195	0.115－0.120	0.080－0.145
0.134－0.202	0.120－0.125	0.084－0.152
0.138－0.209	0.125－0.130	0.088－0.159
0.142－0.216	0.130－0.135	0.092－0.166
0.146－0.223	0.135－0.140	0.096－0.173
0.150－0.230	0.140－0.145	0.100－0.180

■ Manual Set SS Adjustment

* 1/12000 SS Adjustment (pg. 43) should have been completed.

■ Equipment required

Shutter Tester
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact jig Cable
HIT I/F Box

■ Check

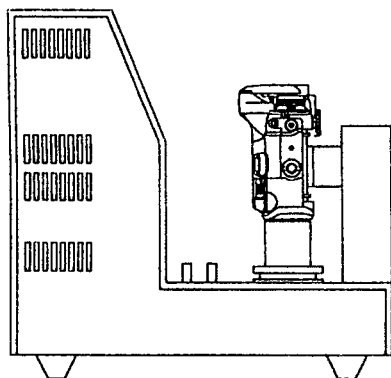
1. Set up the equipment as in Fig. 1.
2. Set shutter speed to 1/12000.
3. Release the shutter several times and calculate average of readings at B-Range.
* If the result is out of standard, perform adjustment below.

■ Adjustment

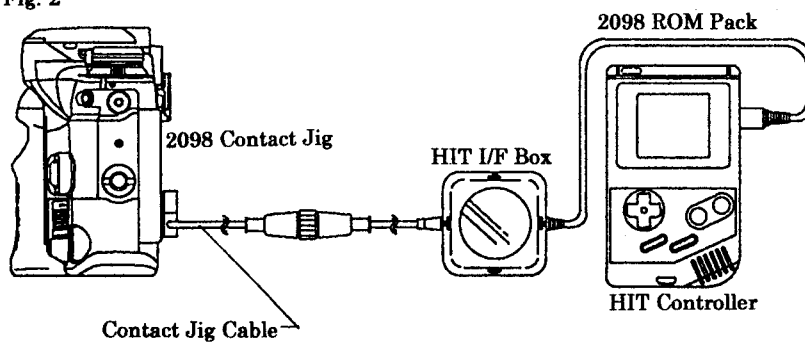
1. Set up the equipment as in Fig. 2.
2. Select "SS ADJ." from the main menu and press SELECT Button.
3. Select "86" using Control Pad.
4. Set the average (μs) obtained at check-step-3 using Control Pad and Button-A/-B, then press SELECT Button.
• In ± 2 stop; Press Control Pad while pressing and holding Button-A.
• In ± 10 stop: Press Control Pad while pressing and holding Button-B.
5. Press Shutter-Release Button partway down. "COMPLETE" appears when adjustment is completed.
6. Press SELECT Button to return to the main menu.

Standard: 0.055 - 0.135

■ Fig. 1



■ Fig. 2



■ SPC Position Adjustment

* Before adjustment, remove external parts including Top Cover Assy. And temporarily install Shutter-Button Cover Assy. Instead of temporarily installing Shutter-Button Cover, using Remote-Cord is available.

* After completing this adjustment, always perform AE Adjustment (pg. 46)

■ Equipment required

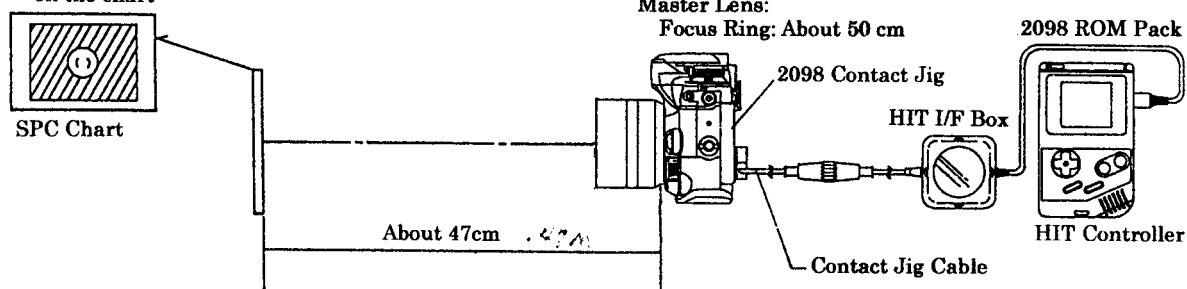
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
2098 Power Supply Adapter
DC Power Supply
Remote Cord RC-1000
SPC Chart

■ Adjustment

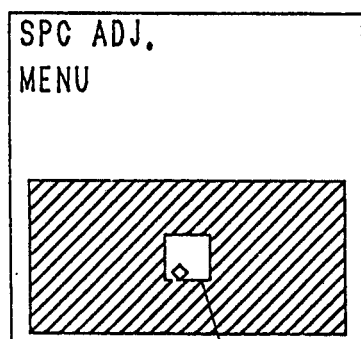
1. Set up the equipment as in Fig. 1.
2. Select "AE ADJ." from main menu and press SELECT Button.
3. Select "SPC ADJ." from AE adjustment menu and press SELECT Button.
4. Press S1 on with Remote Cord.
5. Adjust eccentric screw (Fig. 3) so that display "◇" comes inside the white area in the display.
(Fig. 2) Apply B-60 when adjustment is completed.
6. Press SELECT Button to return to AE adjustment menu.

■ Fig. 1

■ Align Spot Metering Circle with brackets on the chart

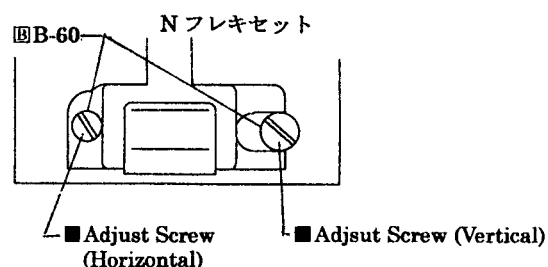


■ Fig. 2



Set the mark inside the white box.

■ Fig. 3



■ AE Check & Adjustment

*SPC Position Adjustment should have been completed. (pg. 45)

■ Equipment required

Luminance Box
OR Multi-Camera Tester
Master Lens
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

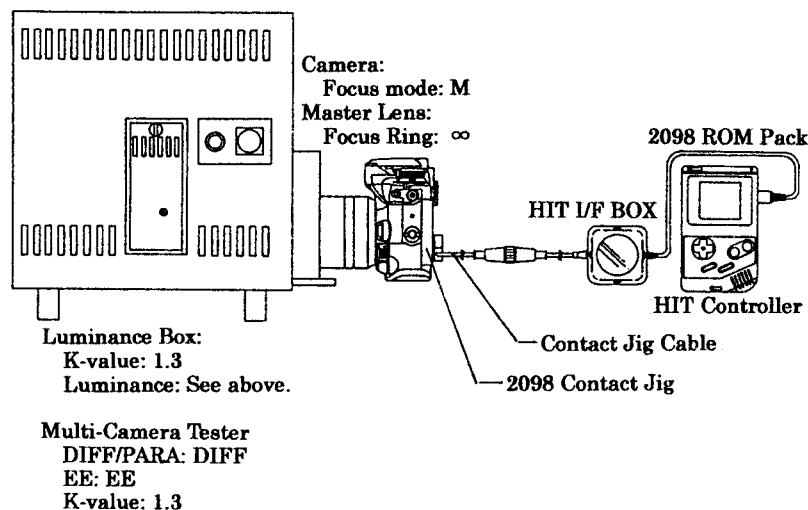
■ Check

1. Set up the equipment as in Fig. 1.
2. Select "AE ADJ." from main menu and press SELECT Button.
3. Select "AE CHECK" from AE adjustment menu and press SELECT Button.
4. Press Shutter-Release Button partway down.
5. Check that value in each cell is within $\pm 0.3\text{EV}$ to the set luminance. (Fig. 2)
*Check with EV6, EV10, and EV15.
6. Press SELECT Button to return to AE adjustment menu.

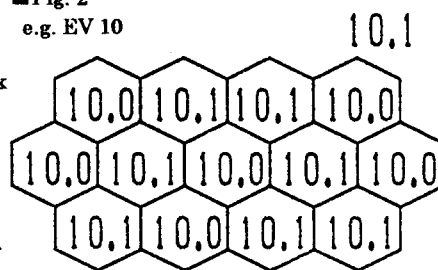
■ Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "AE ADJ." from main menu and press SELECT Button.
3. Select "AE ADJ." from AE Adjustment menu and press SELECT Button.
4. Set luminance to EV6, then press SELECT Button.
5. Press Shutter-Release Button partway down.
6. Set luminance to EV15, then press SELECT Button.
7. Press Shutter-Release Button partway down. "COMPLETE" appears when adjustment is complete.
8. Press SELECT Button. Displays are replaced with AE adjustment menu.

■ Fig. 1



■ Fig. 2
e.g. EV 10



Aperture Preset Check & Adjustment

Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
HIT I/O Tester
Preset Signal Adapter

Check

1. Setup the equipment as in Fig. 1. And set camera to "M mode" and "Bulb".
2. Press Reset Button on HIT I/O Tester so that "00" appears in the display.
3. Set aperture according to Table-1, and release the shutter.

Check that reading in the HIT I/O Tester is within the standard. (Reading appears while shutter is pressed down.)

Fig. 1

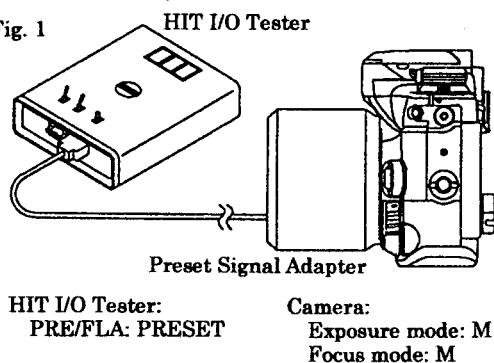


Table-1

Aperture	Standard
f/2.4	15-26
f/4	47-57
f/5.6	69-78
f/11	Ab-bb
f/22	EE-FE

NOTE: These indications look similar in HIT I/O Tester display

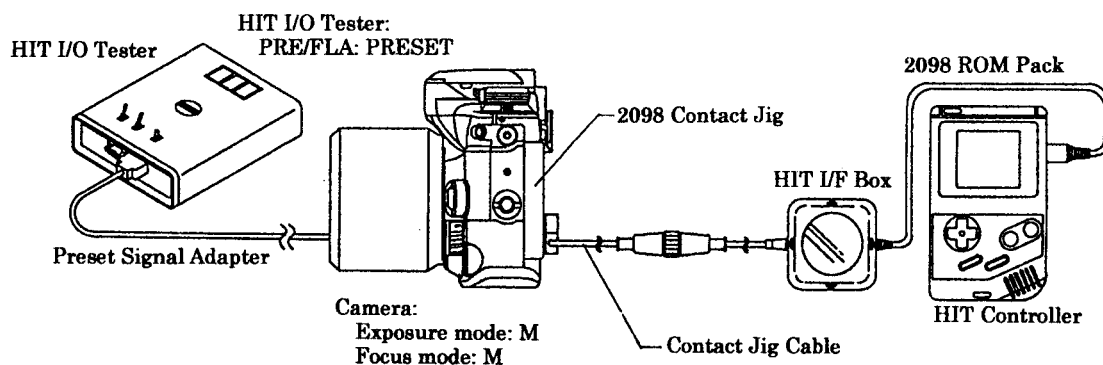
* Figures in HIT I/O Tester is in hexadecimal notation.

□ 6
□ b

Adjustment

1. Set up the equipment as in Fig. 2.
2. Select "PRETRIGGER ADJ." from the main menu and press SELECT Button.
3. Press SELECT Button again.
4. Press Reset Button on HIT I/O Tester so that "00" appears in the display.
5. Press Shutter Release Button partway down. (S1 ON)
* Shutter is released automatically for 3 times. Obtain average reading of HIT I/O Tester.
6. Input the average to HIT Controller;
• First digit: Press and hold Button-A while pressing Control Pad
• Second digit: Press and hold Button-B while pressing Control Pad.
7. Press SELECT Button.
8. Repeat from step-4 to -7 for each aperture automatically set to f/1.7, f/2.8, f/4, f/13, f/22.
9. Press Shutter-Release Button partway down. "COMPLETE" appears when adjustment is complete.
10. Press SELECT Button to return to the main menu.

Fig. 2



Flash SPC Level Check & Adjustment

Equipment required

Luminance Box
 OR Multi-Camera Tester
 HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 Master Lens
 Reflection Paper

Check

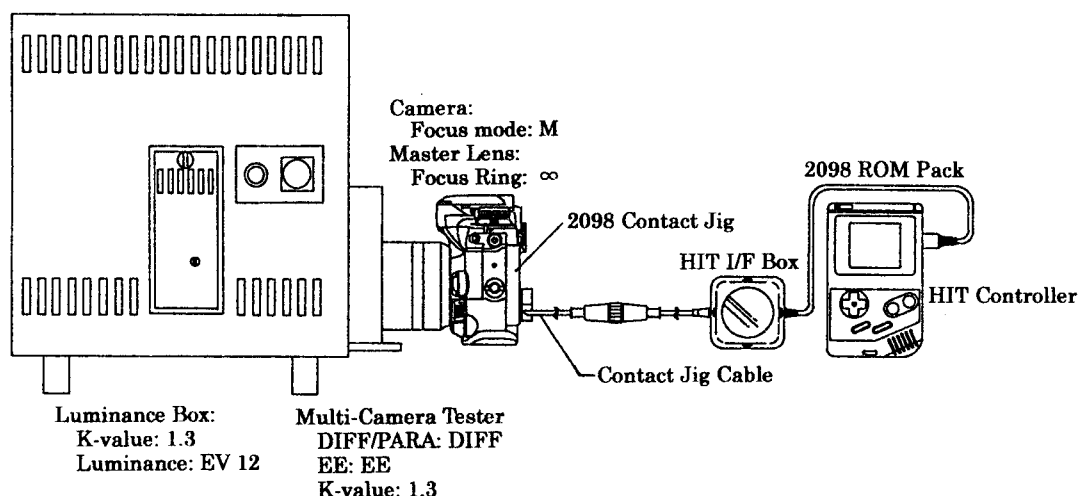
1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ" from main menu and press SELECT Button.
3. Select "FL SPC LEVEL CHECK" from flash adjustment menu and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
 * Check that the result is within the standard. (0-1.32 EV).
6. Press SELECT Button. Displays are replaced with the flash adjustment menu.

Standard 0-1.32 EV

Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "FL SPC LEVEL ADJ." from flash adjustment menu, and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
6. Press SELECT Button. Displays are replaced with flash adjustment menu.

Fig. 1



Flash Level Check & Adjustment

Equipment required

Luminance Box
 OR Multi-Camera Tester
 HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 Master Lens
 Reflection Paper

Check

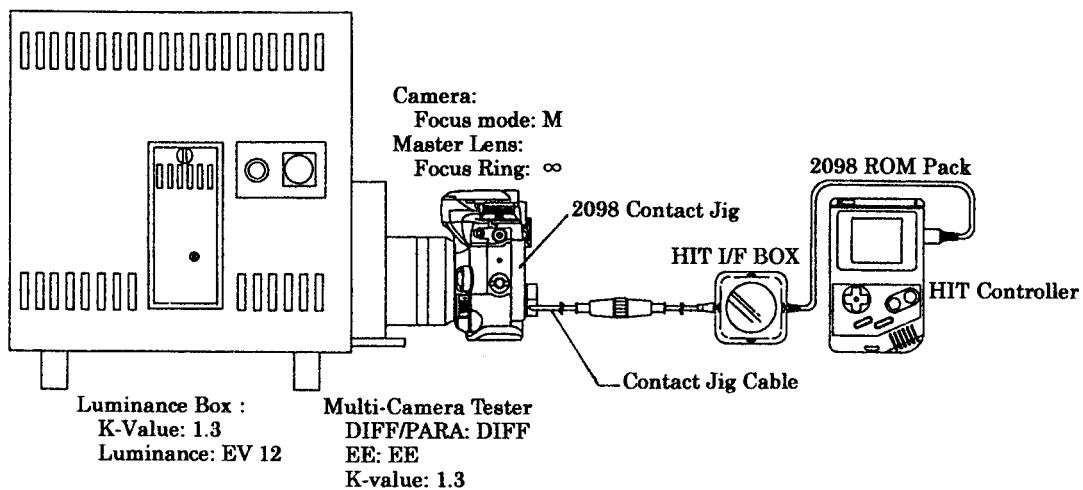
1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "FLASH LEVEL CHECK" from flash adjustment menu and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
 * Check that the result is within the standard. ($\pm 0.4\text{EV}$).
6. Press SELECT Button. Displays are replaced with the flash adjustment menu.

Standard $\pm 0.4\text{EV}$

Adjustment

1. Set up the equipment as in Fig. 1.
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "FLASH LEVEL ADJ." from flash adjustment menu, and press SELECT Button.
4. Set luminance to EV12, and press SELECT Button.
5. Press Shutter-Release Button partway down (S1 on). Shutter is released automatically, and "COMPLETE" appears in the display.
6. Press SELECT Button. Displays are replaced with flash adjustment menu.

Fig. 1



■ Pre-Flash Level Adjustment

■ Equipment required

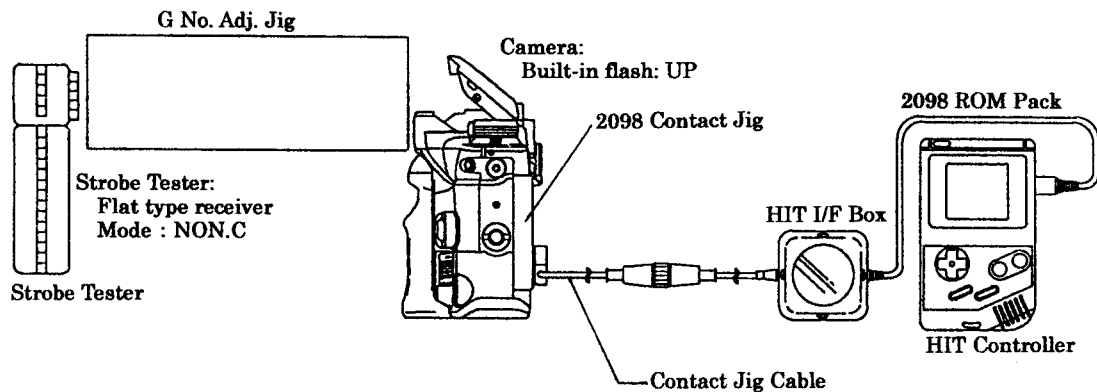
HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 Strobe Tester
 Guide No. Adj. Jig

■ Adjustment

1. Setup the equipment as in Fig. 1
2. Select "FLASH LEVEL ADJ." from main menu and press SELECT Button.
3. Select "PREFIRE ADJ." from flash adjustment menu, and press SELECT Button.
4. Press Shutter-Release Button partway down. (S1 on)
5. Select "FIRE TIME", and press SELECT Button.
6. Press Shutter-Release Button partway down. Read Strobe Tester when flash fires.
 * If reading is out of standard, perform adjustment below.
7. Adjust flash level (firing time: μ S) using Button-A or -B, then press SELECT Button.
 • To increase flash level: Press Button-A.
 • To decrease flash level: Press Button-B.
8. Repeat from step-5 to -7 until reading meets the standard range.
9. Select "MENU", and press SELECT Button. Displays are replaced with flash adjustment menu.

Allowable range $f/8+0.2$ - $f/11+0.2$

■ Fig. 1



■ Wireless Flash Level Adjustment

■ Equipment required

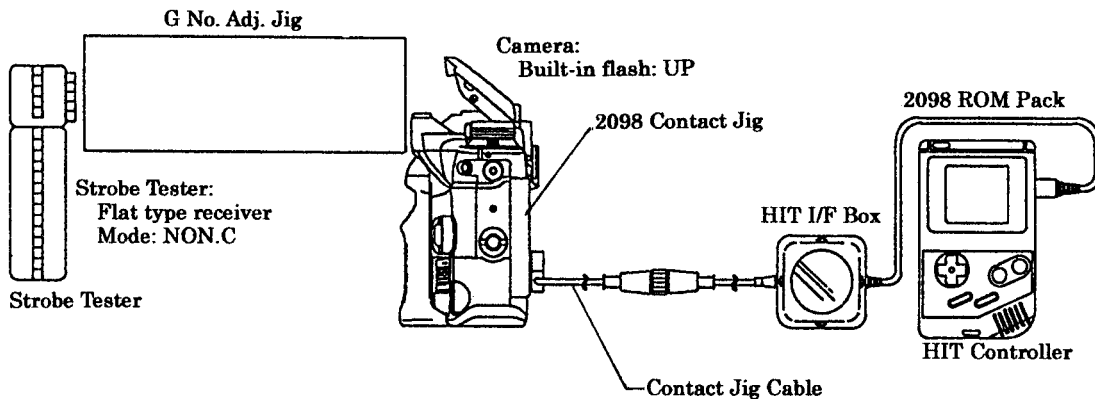
HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
Strobe Tester
Guide No. Adj. Jig

■ Adjustment

1. Setup the equipment as in Fig. 1
2. Select "FLASH ADJ." from main menu and press SELECT Button.
3. Select "W-LESSFIRE ADJ." from flash adjustment menu, and press SELECT Button.
4. Press Shutter-Release Button partway down. (S1 on)
5. Select "FIRE TIME" and press SELECT Button.
6. Press Shutter-Release Button partway down. Read Strobe Tester when flash fires.
* If reading is out of standard, perform adjustment below.
7. Adjust flash level (firing time: μ S) using Button-A or -B, then press SELECT Button.
• To increase flash level: Press Button-A.
• To decrease flash level: Press Button-B.
8. Repeat from step-5 to -7 until reading meets the standard range.
9. Select "MENU", and press SELECT Button. Displays are replaced with flash adjustment menu.

Allowable range: f/2.8 - f/4

■ Fig. 1



■ Frame Position Adjustment

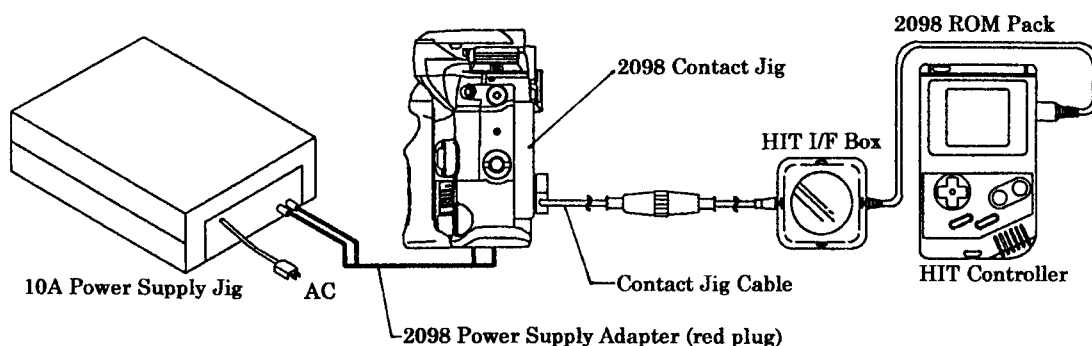
■ Equipment Required

HIT Controller
 2098 ROM Pack
 2098 Contact Jig
 Contact Jig Cable
 HIT I/F Box
 10A Power Supply Jig
 2098 Power Supply Adapter
 DC Power Supply

■ Adjustment

1. Setup the equipment as in Fig. 1.
2. Select "FRAME ADJ." from main menu and press SELECT Button.
3. Press SELECT Button again.
4. Press Shutter-Release Button partway down. (S1 on). "COMPLETE" appears when adjustment is completed.
5. Press SELECT Button to return to the main menu.

■ Fig. 1



■ B.C. Lock Voltage Adjustment

■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box
2098 Power Supply Adapter
DC Power Supply
Digital Multimeter

■ Adjustment

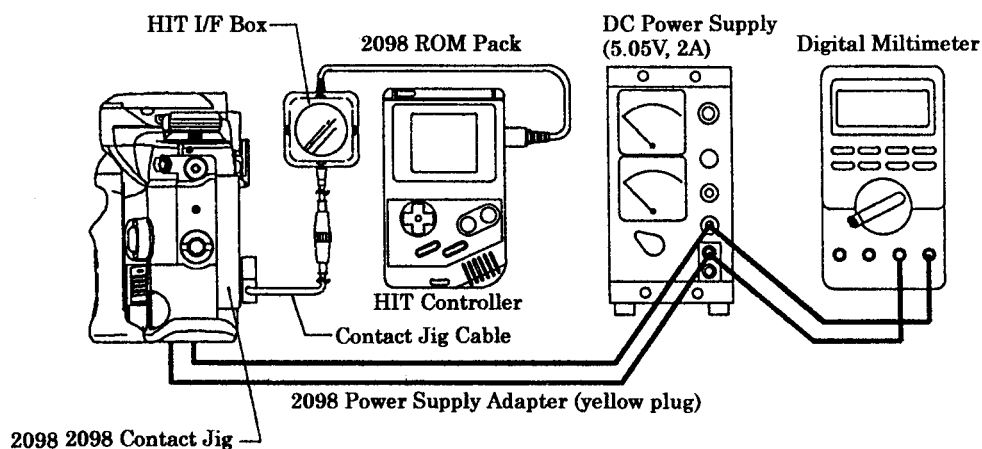
1. Set up the equipment as in Fig. 1.
2. Select "BC-LOCK ADJ." from main menu and press SELECT Button.
3. Set DC Power Supply to 5.05V, then press SELECT Button.
4. Press and hold Shutter-Release Button partway down until "COMPLETE" appears.
5. Press SELECT Button to return to the main menu.

■ Check

1. Check that B.C. lock operates at the voltage below.

Standard: Shutter locks between 4.75V – 4.95V

■ Fig. 1



■ Preparation before adjustment-2 (AF adjustment)

- * After replacing FPC-A, FPC-B, or Mirror Box or its relative parts, always perform adjustment ① to ③ (pg. 55 - 57)
- * Always perform ③ EZ Adjustment (pg. 57) after ①AF Area Adjustment (pg. 55) and ② Pitch, Yaw Adjustment (pg. 56).

■ Before AF adjustment

* The following items should have been completed before starting AF adjustment.

1. Pressure back and viewfinder back check and adjustment.
2. No external part including Bottom Cover is installed.
3. When CCD sensor module is out of position after replacing FPC-B, tighten three AF adjusting screws #2089-5051 until they stop, then evenly loosen them by 0.4mm (1.14 turns).

■ Equipment required

See "Tools & Instruments" (pg.62-63) for model and jig code.

AF Master Lens

AF Chart V

2153 AF Chart

HIT Controller

2098 ROM Pack

2098 Contact Jig

Contact Jig Cable

HIT I/F Box

DC Power Supply

2098 Power Supply Adapter

AF-Y/P Adjuster

AF Tripod Attachment II

Grip Ring

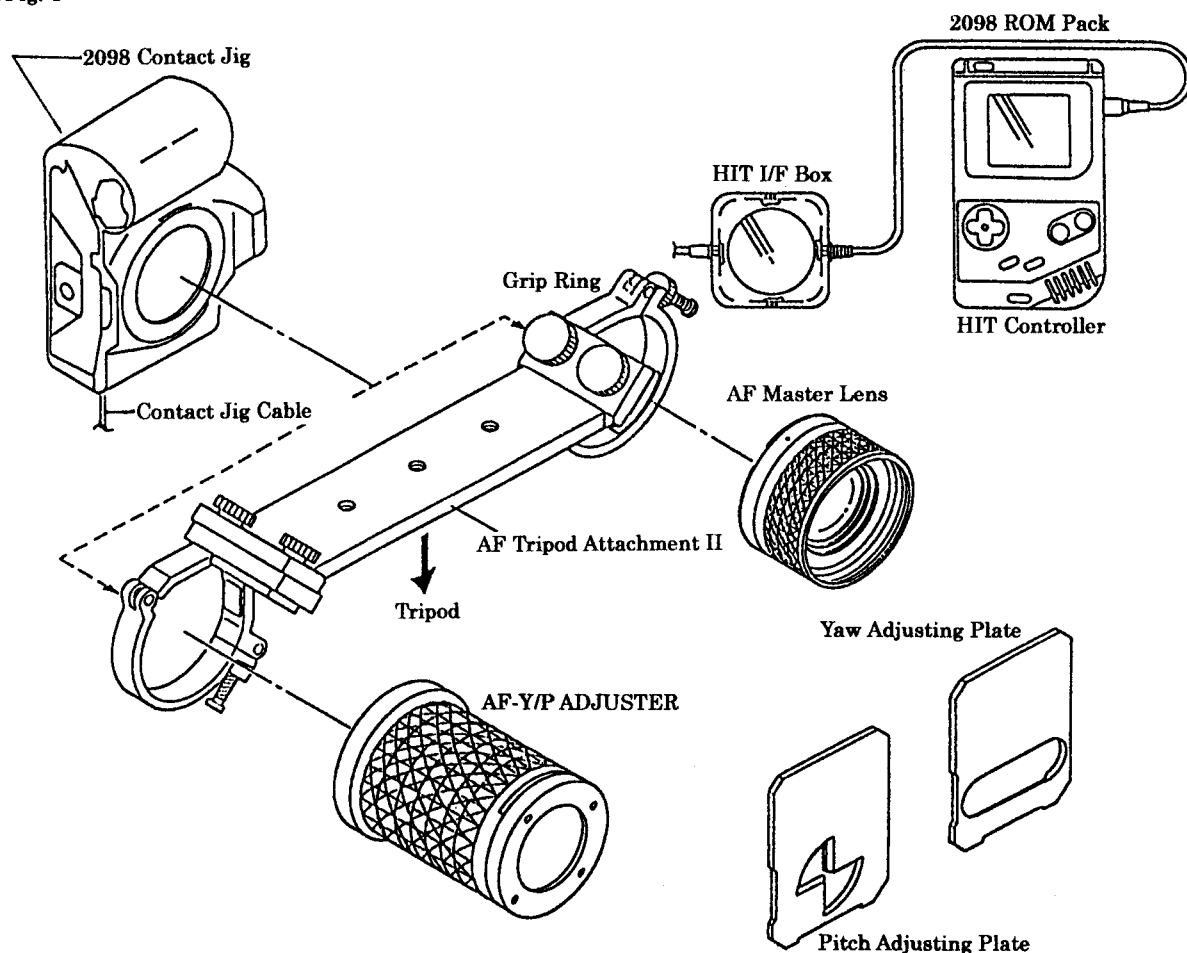
TORX L Wrench

Hexagon Bar Wrench (1.5)

or Hexagon Screwdriver

Flood Lamp (Color temperature of 2800° K)

■ Fig. 1



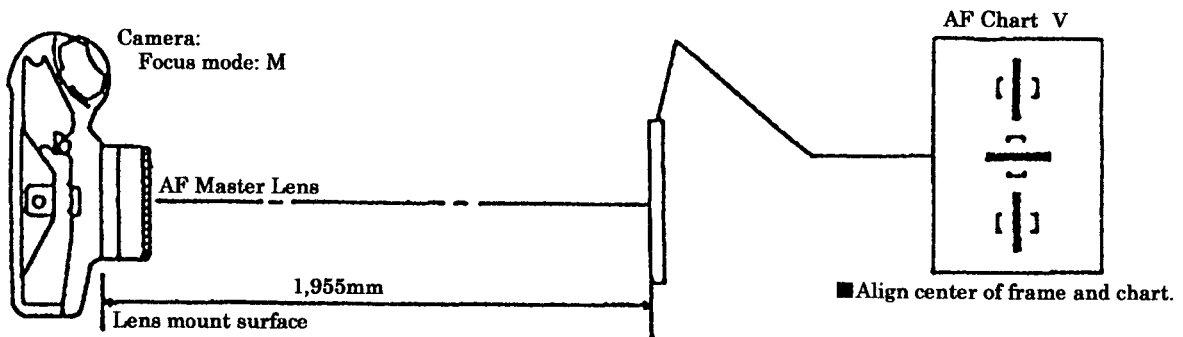
①AF Area Adjustment

■Adjustment

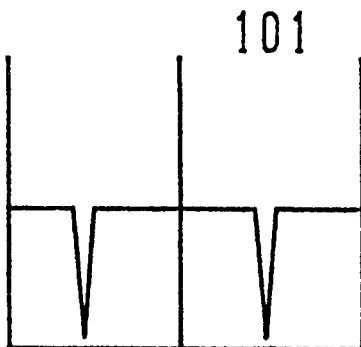
1. Set up the equipment as in Fig. 1
2. Select "AF ADJ." from main menu and press SELECT Button.
3. Select "AREA ADJ." from AF adjustment menu and press SELECT Button.
4. Press and hold Shutter-Release Button partway down so lines with dents and a reading appear in HIT Controller display. Check that each line has two dents like the ones in Fig. 2 and the reading is within standard below.
* If not, perform adjustment as follows.
5. Adjust Sub Mirror position using Hexagon Bar Wrench as in Fig. 3.
6. Repeat step-4 and -5 until the reading is within the standard.
7. Press SELECT Button. Displays are replaced with the AF Adjustment menu.

Adjustment Standard 100 ± 2
(Standard at plant: 100 ± 3)

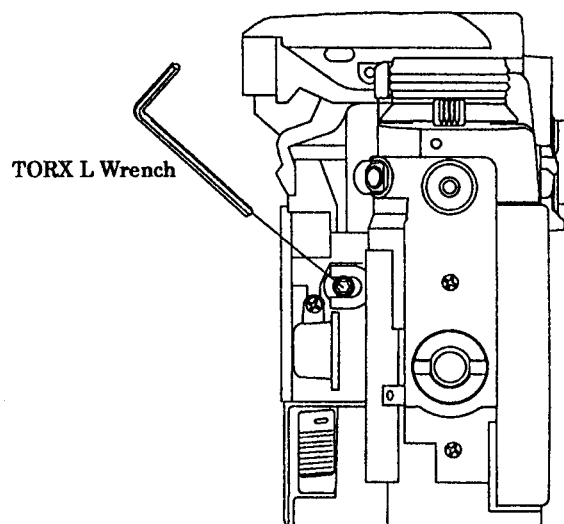
■Fig. 1



■Fig. 2



■Fig. 3



②Pitch Yaw Adjustment

* Light up the chart with a flood lamp during Pitch, Yaw adjustment.

■Pitch Adjustment

1. Attach AF-Y/P Adjuster to the camera, and set Pitch Adjusting Plate. (Fig. 1)
2. Select “AF ADJ.” from main menu and press SELECT Button.
3. Select “ PITCH, YAW ADJ.” from AF adjustment menu and press SELECT Button.
4. Press and hold Shutter-Release Button partway down so that display as Fig. 2 appears.
5. Adjust Pitch Adjusting Screw as in Fig. 4 so that the reading in HIT Controller is within standard. (090-110)

■Yaw Adjustment

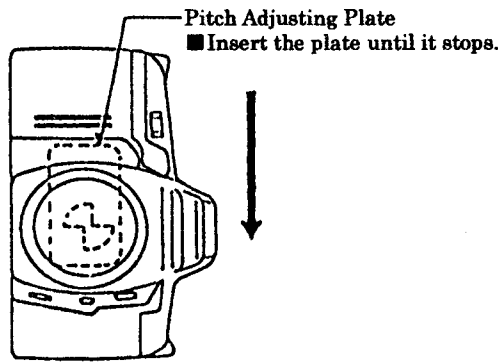
1. Replace Pitch Adjusting Plate with Yaw Adjusting Plate. (Fig. 3)
2. Press and hold Shutter-Release Button partway down so that display as Fig. 2 appears.
3. Adjust Yaw Adjusting Screw as in Fig. 4 so that the reading in HIT Controller is within standard. (090 - 110)
4. Press SELECT Button. Displays are replaced with the AF adjustment menu.

■Check

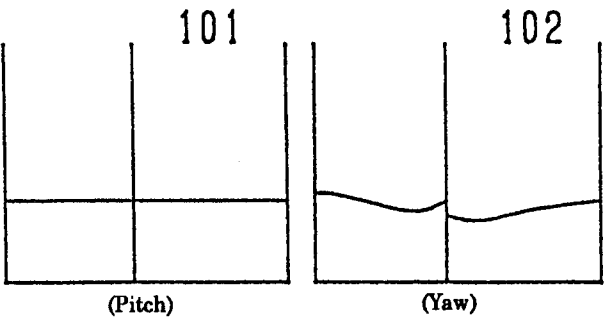
1. Check AF area referring to page 55. Perform “①AF Area Adjustment” and “②Pitch, Yaw Adjustment” repeatedly until all readings meet the standards.

	Adjustment standard	(Standard at plant)
Pitch	090—110	(072-139)
Yaw	090—110	(077-130)

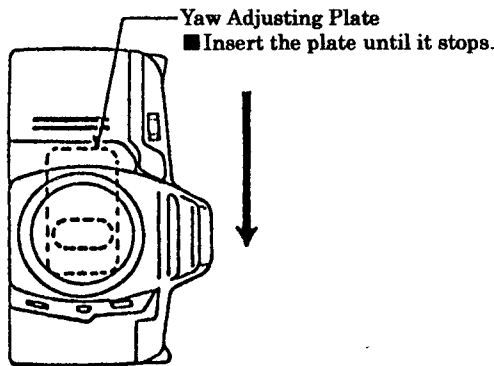
■Fig. 1



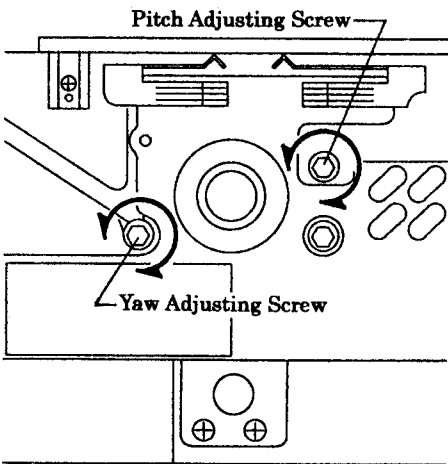
■Fig. 2



■Fig. 3



■Fig. 4



③EZ Adjustment

■ Check

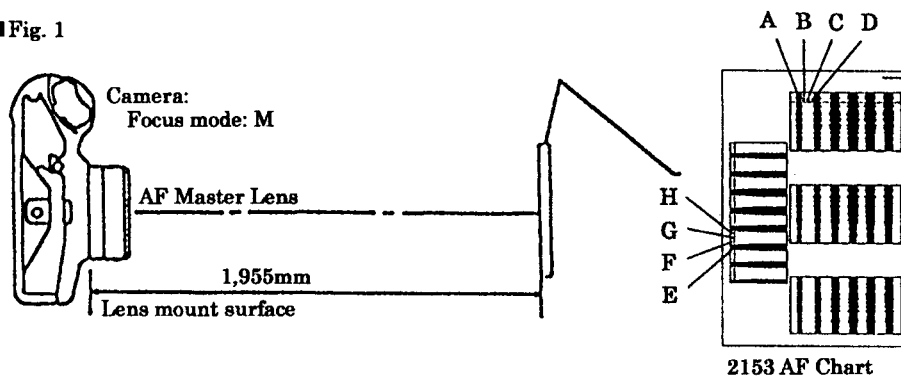
1. Set up the equipment as in Fig. 1
2. Select "AF ADJ." from main menu and press SELECT Button.
3. Select "EZ CHECK" from AF adjustment menu and press SELECT Button.
4. Select "1. 3. 4. ISLAND" or "2. ISLAND" and press SELECT Button.
5. Looking through the viewfinder, align Focus Frame with 2153 AF Chart as below.
 - If "1.3.4. ISLAND" is selected, align Focus Frame with A on 2153 AF Chart.
 - If "2. ISLAND" is selected, align Focus Frame with E on 2153 AF Chart.
6. Press and hold Shutter-Release Button partway down. Reading as Fig. 2 appears.
 - * Check that the reading is within standard range (0+/-50).
7. Select "MENU" and press SELECT Button to quit.

■ Adjustment

1. Set up the equipment as in Fig. 1
2. Select "AF ADJ." from main menu and press SELECT Button.
3. Select "EZ ADJ." from AF adjustment menu and press SELECT Button.
4. Looking through the viewfinder, align Focus Frame with the one appears in HIT Controller. Then press SELECT Button.
5. Press and hold Shutter-Release Button partway down until the next measuring point appears in the display.
6. Repeat step-4 and -5 for each measuring point from "A" to "H". "COMPLETE" appears when all measuring points are adjusted.
7. Press SELECT Button. Displays are replaced with the AF adjustment menu.

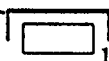
Standard 0+/-50

■ Fig. 1

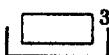
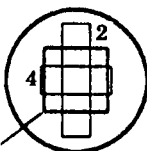


■ Focus Frame's island No.

Align for measuring point "A" - "D".



Align for measuring point "E" - "H".



■ Fig. 2

EZ CHECK	EZ CHECK
1 ISLAND +007	
3 ISLAND +005	2 ISLAND +012
4 ISLAND +005	
MENU	MENU

Assist Mode

The following 7 assistant items are available with 2098 ROM Pack.

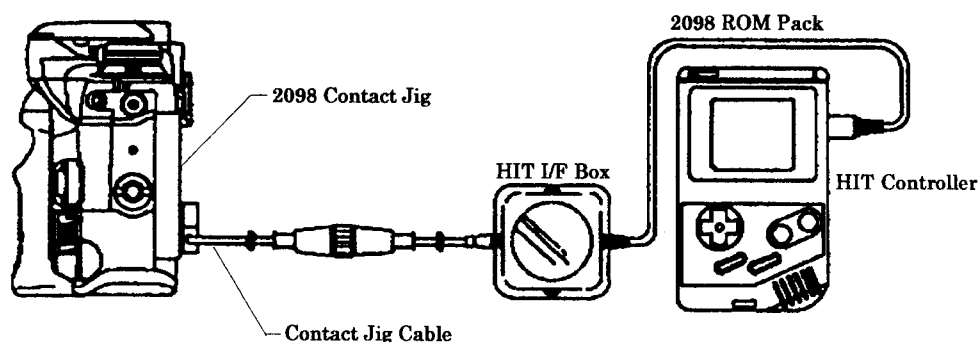
- Model selection
- Data copy
- Trouble code readout
- Sw. check
- Flash charge ON/OFF
- Push-on AF selection
- Focus LED adjustment

ASSIST MODE	
MODEL SET	
DATA COPY	
TROUBLE CODE	
SW CHECK	
FLASH CHARGE ON/OFF	
ONE PUSH AF	
FOCUS LED ADJ.	
MENU	

Preparation

1. Setup the equipment as below.
2. Select "ASSIST MODE" from main menu and press SELECT Button. Assist mode menu appears in the display.

Fig. 1

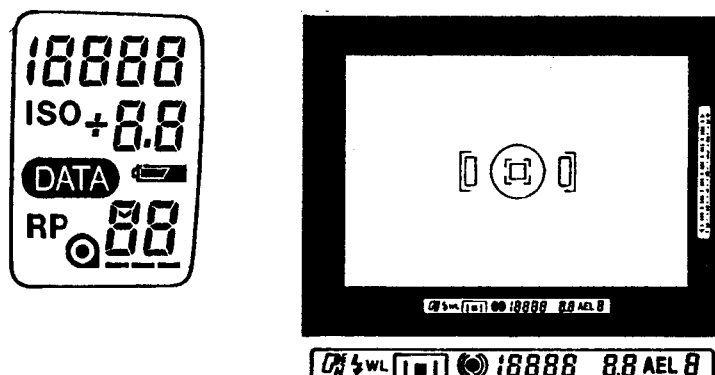


LCD Displays Check

Check

1. Slide Main Switch to ON.
2. Pressing and holding Manual-Rewind Button, re-install batteries.

*Re-install the batteries again to resume normal display.



Model selection

Note: The "Model selection" is always required when replacing with FPC-A Assy #2098-0901. Select normal or titanium version so that specification and custom functions are suitable for the model.

The "Model selection" is not available with conventional FPC-A Assy #2098-0401.

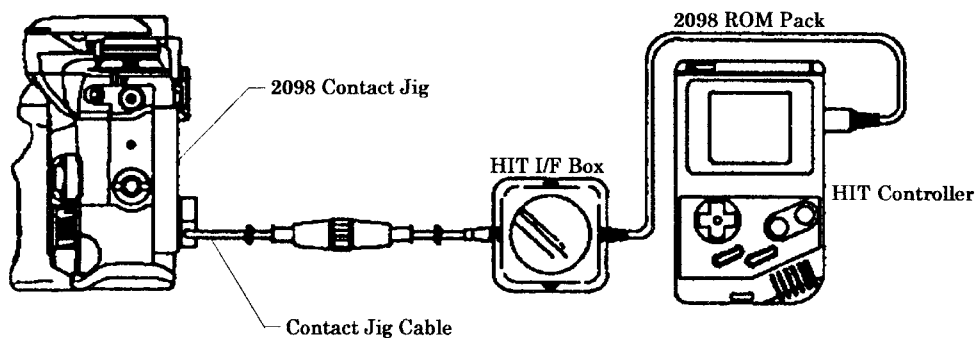
■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

■ Procedure

1. Set up the equipment as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "MODEL SET" from assist mode menu and press SELECT Button.
4. Press Shutter-Release Button partway down (S1 ON).
5. Select "TITAN" with Control Pad and press SELECT Button.
6. Press S1 ON. "COMPLETE" appears when selection completed.
If "CHANGE FLEX" appears, the FPC-A Assy is conventional type #2098-0401.
7. Press SELECT Button to quit.

■ Fig. 1



■ Data Copy; Adjustment data

Note: Keep HIT Controller activated until the whole copying procedure is complete. Otherwise, the data stored in HIT Controller is erased. Before starting data copy, check the battery capacity of HIT Controller, and replace batteries with fresh ones if exhausted.

■ Equipment required

HIT Controller
2098 ROM Pack
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

■ Data copy

*Never turn HIT Controller off during data copy (up to step-9)

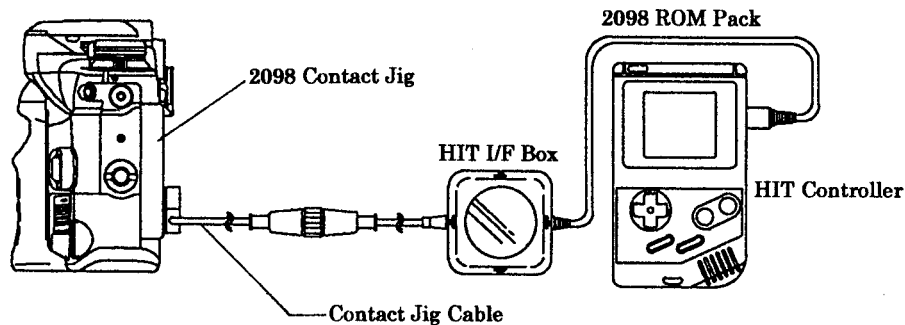
■ Read out from original FPC-A (before removing FPC-A)

1. Set up the equipment as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "DATA COPY" from assist mode menu and press SELECT Button.
4. Select "READ" and press SELECT Button.
5. Press Shutter-Release Button partway down. "DATA STORED" appears when data copy to HIT Controller is completed.

■ Write in to new FPC-A (after installing new FPC-A)

1. Set up the equipment as in Fig. 1.
2. Select "WRITE" and press SELECT Button.
3. Press Shutter-Release Button partway down. "COMPLETE" appears when data copy to HIT Controller is completed.
4. Select "MENU" and press SELECT Button. Displays are replaced with assist mode menu.

■ Fig. 1



■ Data Copy; Photographic data

■ Equipment required

Data Memory Back-9
SmartMedia Card

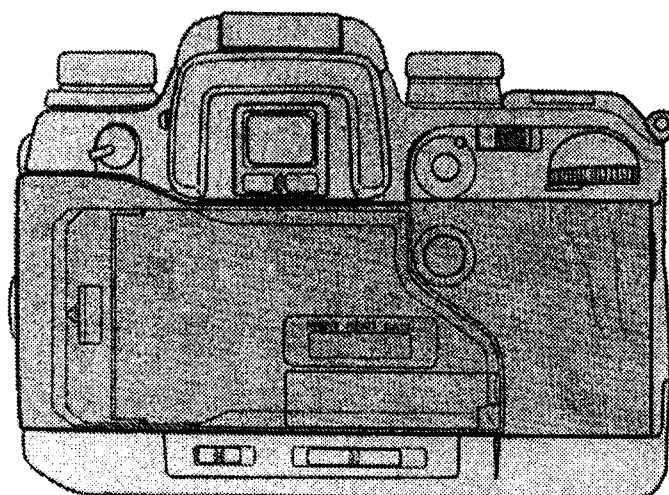
■ Read out from original FPC-A to SmartMedia Card (before removing FPC-A)

1. Set up the equipment as in Fig. 1.
2. Turn all displays on in LCD;
Slide Main Switch to on, and pressing and holding Manual-Rewind Button, re-install batteries.
Re-install batteries again to resume normal display.
3. Press ISO Button. Display as Fig. 2 appears.
* "DATA" blinks in Data Panel during data transfer, "E" appears in Data Panel when complete.

■ Write in to new FPC-A from SmartMedia Card (after installing new FPC-A)

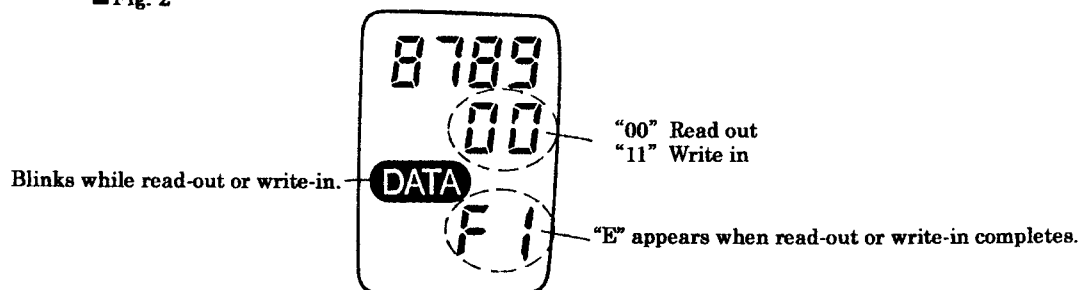
1. Set up the equipment as in Fig. 1.
2. Turn all displays on in LCD;
Slide Main Switch to on, and pressing and holding Manual-Rewind Button, re-install batteries.
Re-install batteries again to resume normal display.
3. Press Adjust Button. Display as Fig. 2 appears.
* "DATA" blinks in Data Panel during data transfer, "E" appears in Data Panel when complete.

■ Fig. 1



DATA MEMORY BACK 9 (#8789)
SmartMedia Card inserted

■ Fig. 2



■ Error Code on HIT Controller

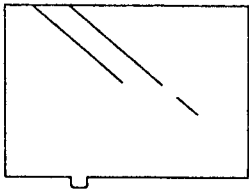
■ Error code list

Item	Error code	Meaning	Causing
BC lock voltage adjustment	10	A/D conversion reading at battery check is incorrect	<ul style="list-style-type: none"> • Voltage is wrongly set • Resistance of Power Supply Adapter is defective. • Resistor for BC dummy current is defective, triggering failure.
AE adjustment	21	Little difference between EV6 and EV15.	<ul style="list-style-type: none"> • Luminance is wrongly set. • SPC is disconnected.
Manual set SS adjustment	28	Out of adjustable range; Input value is out of adjustable range	<ul style="list-style-type: none"> • Defective Shutter Assy
Flash SPC Level adjustment / Flash level adjustment	30	Flash level is incorrect.	<ul style="list-style-type: none"> • Luminance is wrongly set. • SPC is disconnected. • Reflection Paper isn't set. • Aperture mechanism is defective.
Aperture preset adjustment	50	Aperture pulse doesn't change	<ul style="list-style-type: none"> • Defective Aperture Baseplate Assy
EZ Adjustment	61	Low contrast	<ul style="list-style-type: none"> • Chart is out of position • Chart is too close/far. • CCD is defective.

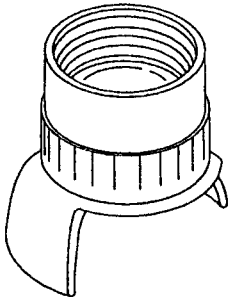
Tools & Instruments

- Luminance Box <Model L-2101, L-2111, *L-222, *L-223>
EE Tester <Model EE-2101, EE-2111> OR Multi-Camera Tester <7981-1025-01>
Shutter Tester <Model S-2201>
- 1000mm Collimator <Model RC-III, *II, *I >
Digital Multimeter <FLUKE 83>
DC Power Supply <MTR18-2>
Camera Leak Tester <CL-1101, CL-1201>
Strobe Tester <ST-V, *IV, *III>
PROGRAM (MAXXUM) FLASH Xi series
Master Lens <2072-0001-75>
AF Master Lens <2072-0006-75>
2098 Finder Frame Screen <2098-0001-75>
2098 Finder Frame Loupe <2098-0002-75>
2098 Finder Frame Chart <2098-0003-75>
2098 Focus Area LED Chart <2098-0004-75>
HIT Controller<7981-5001-01>
Contact Jig Cable <7981-5001-05>
2098 ROM PACK III <7981-5002-33>
2098 Contact Jig <7981-5001-33>
HIT I/F Box <7981-5001-33>
SPC Chart <2082-0004-75>
AF Chart V <2082-0001-75>
2153 AF Chart <2153-0001-75>
G No. Adj. Jig <2082-0005-75>
Mechanical Charge Jig <2081-2504-75>
2098 Power Supply Adapter <7981-1018-76>
- Sync Cord<7981-1013-11>
Remote Cord <RC-1000>
AF Tripod Attachment II <2072-0003-76>
AF-Y/P Adjuster <2076-0006-75>
Grip Ring <7983-9004-01>
Mirror Remover <2071-5806-75>
Mirror Positioner <2072-5151-75>
Mount for BB Adj. <7982-2007-01>
Body Back Flat Plate-A <7982-2004-01>
Body Back Gauge <7982-2002-01>
Dial Gauge <7982-2001-11>
TORX L Wrench (T8) <7983-1032-01>
Focusing Glass type-A II <7983-2009-02>
Copy Stand
Discharger II <7983-9005-01>
Hexagon Bar Wrench (1.5)
Hexagon Screwdriver <7983-1040-01>
Reflection Paper <7981-3001-52>
Flood Lamp (Color temperature of 2800° K)
Film (Kodacolor gold 100 Color negative film;
Exposed indoor for 24 hours or longer)
*: Production ceased.

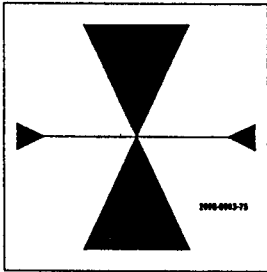
2098 Finder Frame Screen
<2098-0001-75>



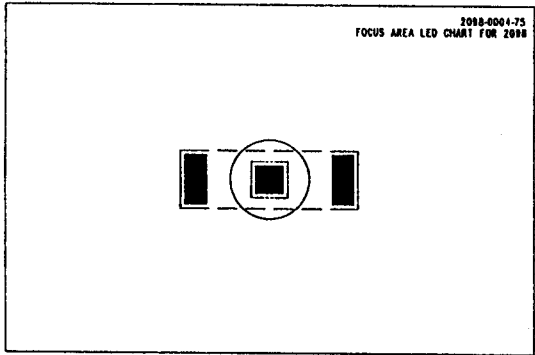
2098 Finder Frame Loupe
<2098-0002-75>



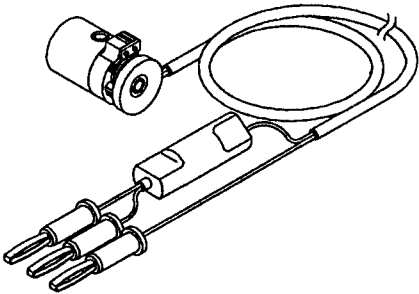
2098 Finder Frame Chart
<2098-0003-75>



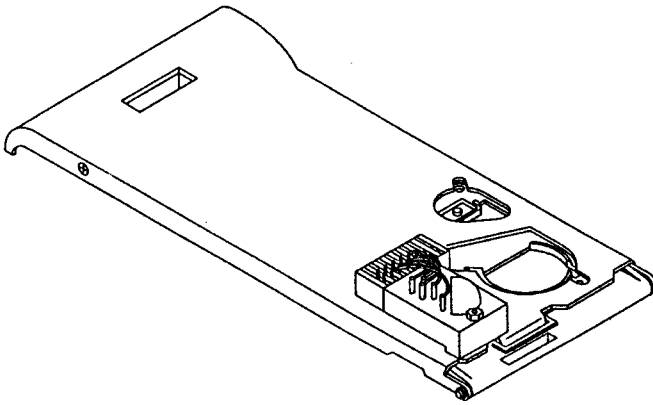
2098 Focus Area LED Chart <2098-0004-75>



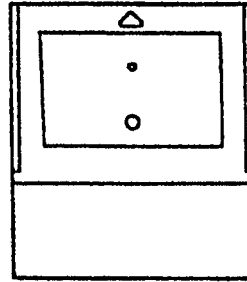
2098 Power Supply Adapter <7981-1018-76>



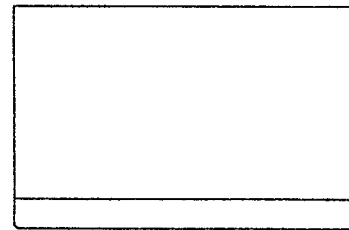
■ 2098 Contact Jig <7981-5001-37>



■ 2098 ROM PACK III <7981-5002-33>



■ Focusing Glass type-AII <7983-2009-02>



■ Subsidiary Materials

■ Grease

G-75 <7984-1075-01>

G-85 <7984-1085-01>

G-115 <7984-1115-01>

■ Adhesive

B-50 <7984-2050-01>

B-60 <7984-2060-01>

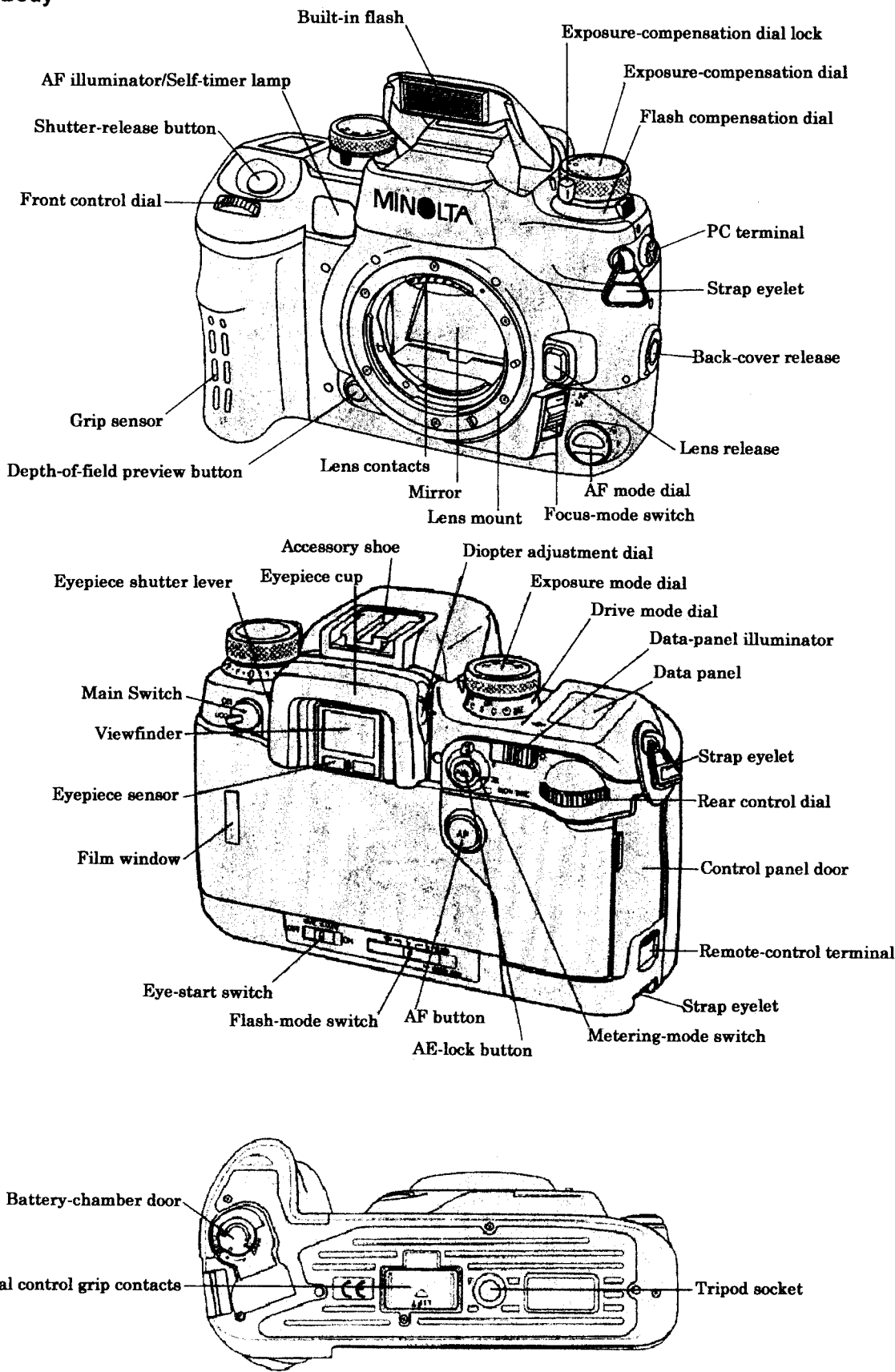
Check List

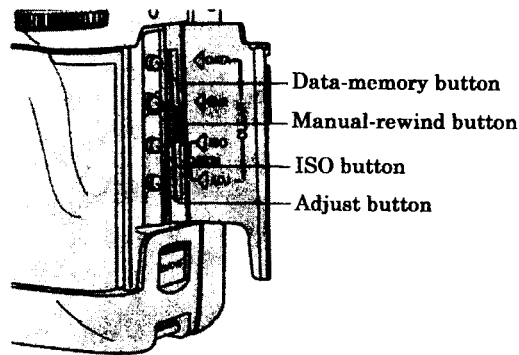
1. This Check List describes the quality of operation warranted to general users. When users inquire about quality or request inspection, refer to this Check List. Use this list also when checking operation after repair.
2. When using this list during shipping or receiving inspection, judge the quality according to the purpose of the inspection, not by directly referring to this level.
3. For individual taste or special usage, some users may not be satisfied with this level of quality and will request a different one. In such cases, adjust the level as requested by them as much as possible.
4. Checking items that are characterized as sensory test are not included. Adjust these items according to product or user's request.

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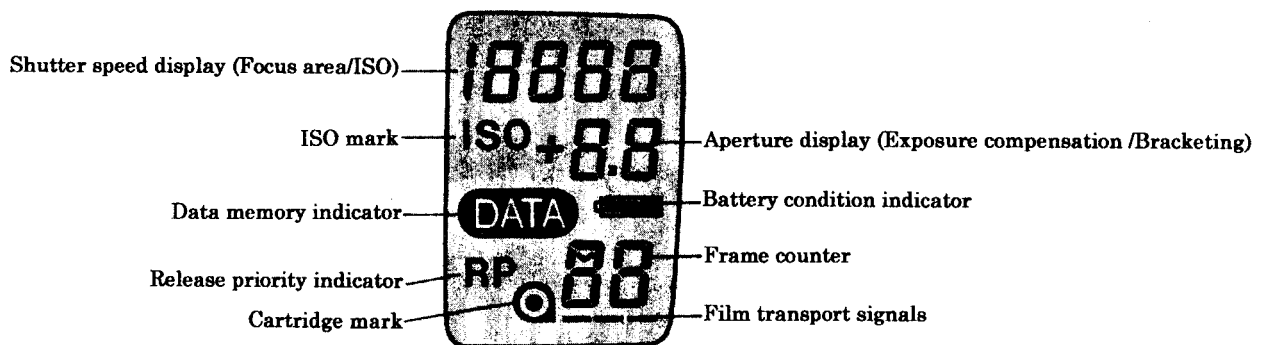
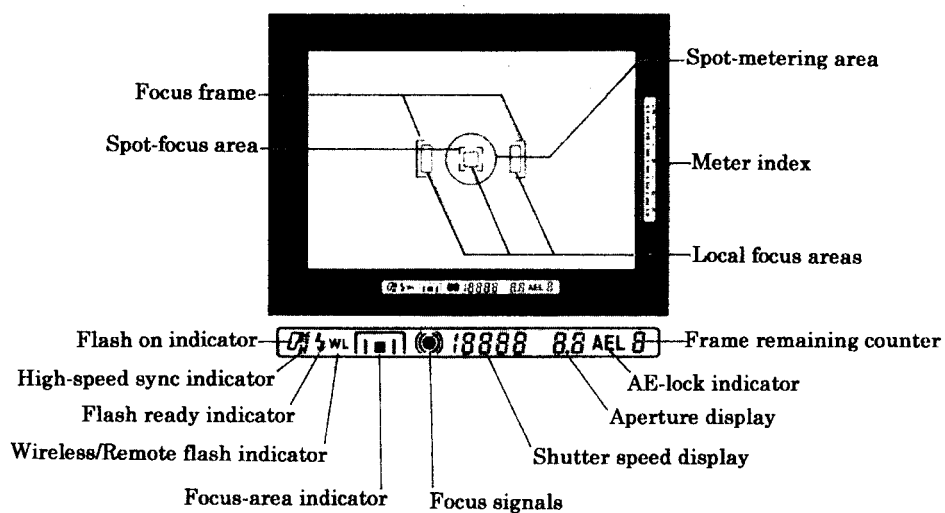
Name of parts

Body



**Data panel**

Body

CHECK
LIST**Viewfinder**

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Initial setting

Battery installation

- Installing batteries will not reset these settings:
Manual ISO setting
Frame counter
Data memory on/off
Customized setting
- Installing batteries resets the lens to;

	AF mode	MF mode
Non xi lens	Set to a specific focus position after infinity-reset	No lens reset and keep MF setting
xi lens	Set to a specific focus position after wide-end reset	Wide-end reset but keep MF setting

Main Switch ON

- Multi-exposure setting is not reset.
- Customized settings are not reset. But if push-type AE lock/off is selected, and Main Switch is slide to ON while AE is locked, AE is unlocked.
- Pressing and holding Adjust Button while sliding Main Switch to ON resets all customized setting to "1".
- Sliding Main Switch OFF and ON during film rewind stops and resumes film rewind.
- Even when film rewind speed is changed from customized setting (CUST12) by pressing Rewind Button during film rewind, sliding main Switch OFF and ON during film rewind stops and resumes film rewind in determined film rewind speed.
- Lens resets to;

	AF mode	MF mode
Non xi lens	Set to a specific focus position after infinity-reset	No lens reset and keep MF setting
xi lens	Set to a specific focus position after wide-end reset	Wide-end reset but keep MF setting

Main Switch OFF

- All displays but frame counter disappear.
- Camera operation continues its sequence until mechanical charge, lens specific position set or wide-end reset, depth-of-preview, or 2-sec-self-timer countdown completes.
- Shutter runs even in bulb shutter setting.
- Film rewind stops mid-way.
- 10-sec-self-timer countdown stops midway.
- Bracketing or flash bracketing reset to the first frame.
- Lens resets to;

	AF mode	MF mode
Non xi lens	Infinity-reset	No lens reset
xi lens	Retracts to the minimum length	

Eye-start Switch

ON

- If CUS_t 7-1 is selected, holding Grip and Viewfinder to eye level starts focusing and metering.
- If CUS_t 7-2 is selected, lifting the viewfinder to eye level starts focusing and metering.
- Always starts continuous AF regardless of AF-Mode Dial.

OFF

- Holding Grip and Viewfinder to eye level does not turn on grip sensor and eye sensor.

S0, S1

- Holding Grip and Viewfinder to eye level (S0) or pressing Shutter-Release Button partway down (S1) starts focusing and metering.
- Metered shutter-speed and aperture appear in on-body and viewfinder Data Panels.
- Focus signal appears in Viewfinder Data Panel.
- In A, S or M mode, metered values are held after S0 or S1 off for the period determined by CUS_t 13.

S2

- Pressing Shutter-Release Button all the way down (S2) releases the shutter and advances the film; unless multi-exposure is set.

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Setting & Displays

Exposure-Mode

- Turning Exposure-Mode Dial selects an exposure mode among; P/A/M/S.
- In P mode and CUS18-2 is selected, turning Front/Rear Control Dial shift metered value;
 - Front Dial: PS mode
 - Rear Dial: PA mode
- The P mode shift is reset by one of the following operations;
 - Re-installing batteries
 - Operating Exposure-Mode Dial
 - Raising built-in flash or turning on external flash
 - No operation for 4 sec. after the above operation.

Flash Mode

- Sliding Flash-Mode Switch selects a flash mode among;
 - Fill-flash
 - Red-eye reduction
 - Rear-flash sync
 - Wireless.
- Raising built-in flash sets to fill-flash mode, lowering built-in flash sets to flash cancel.

Metering mode

- Sliding Metering-Mode Switch selects a metering mode among;
 - 14-segment-honeycomb
 - Center-weighted average
 - Spot.

Focus mode

- Sliding Focus-Mode Switch selects AF or MF mode.
- In MF mode, no manual focus indicator appears in Data panel.

AF mode

- Sliding AF-Mode Dial selects an AF mode among;
 - S: Single shot
 - C: Continuous
 - A: Automatic

Focus frame

- If CUS1 9-1 is selected, pressing and holding AF Button while turning Front-Rear Control Dial selects a focus frame;
[] ↔ □ ____ ↔ _ □ _ ↔ ____ □ ↔ []

Drive Mode

- Turning Drive-Mode Dial selects a drive mode;
 - Single frame advance
 - Continuous (HI: 5.5 or 4.5fps, Lo: 2fps)
 - Self-timer (10 or 2 sec-delay)
 - Multiple exposure
 - Exposure bracketing (Single frame advance)
 - Exposure bracketing (Continuous)

Continuous

- In continuous drive mode, pressing Adjust Button makes “HI” or “Lo” appear in the on-body Data Panel. Turning Front/Rear Control Dial alters the above display.

Self-timer

- In self-timer mode, pressing Adjust Button makes “2” or “10” appear in the on-body Data Panel. Turning Front/Rear Control Dial alters the above display.

Exposure bracketing (single/continuous)

- In either bracket mode, pressing Shutter-Release Button partway down makes “br” appear in the on-body Data Panel.
- In either bracket mode, pressing Adjust Button then turning Front/Rear Control Dial select EV-step and number of bracketing exposures;
 - Front Control Dial: EV-step 0.3 → 0.5 → 0.7 → 1.0
 - Rear Control Dial: Number of exposure 3 → 5 → 7
- Which exposure is taken first can be selected in customized setting CUS11.

Flash bracketing (With built-in flash up or external flash on)

- In flash bracket mode, pressing Shutter-Release Button partway down makes “Fbr” appear in the on-body Data Panel.
- Continuous bracketing is not available even though Drive-Mode Dial points to “C”.
- In flash bracket mode, pressing Adjust Button then turning Front/Rear Control Dial selects EV-step and number of bracketing exposure;
 - Front Control Dial: EV-step 0.3 → 0.5 → 0.7 → 1.0
 - Rear Control Dial: Number of exposure 3 → 5 → 7
- Which exposure is taken first can be selected in customized setting CUS11.

Film-Speed

- Pressing ISO Button then turning Front/Rear Control Dial selects a film speed in 1/3EV-stop increments from ISO 6 to 6400
Automatic setting: ISO 25-5000
- Loading a film with no DX coding will not set ISO automatically. Previous ISO setting is kept.

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Exposure-Compensation Indicator

- Setting Exposure-Compensation Dial to “0”, then pulling and turning it changes stop increments between 1/2EV and 1/3EV.
- Turning Exposure-Compensation Lock to unlock position or white mark, then turning Exposure -Compensation Dial selects compensation amount in the range of;
 - 1/2EV-stop: -3.0 EV to +3.0EV
 - 1/3EV-stop: -2.0EV to +2.0EV
- Compensation result appears in Meter Index in Viewfinder and shutter-speed and aperture shift accordingly.
 - * In M mode, pointers in Meter Index change accordingly.
- Amount of exposure compensation shows in on-body Data Panel according to customized setting CUS_t 21.

Flash compensation

- Turning Flash-Compensation Dial selects amount of flash compensation in 1/2EV-stop increments.
- Compensation range: -3.0EV to +3.0EV

Customized setting

- Pressing Adjust Button and ISO Button simultaneously sets to custom setting mode. Then turning Front Control Dial selects a custom No., and turning Rear Control Dial selects a setting number.
- While pressing and holding Adjust Button, sliding Main Switch to ON makes “CLr” appears and all customized settings are reset to default setting-1.

Customized setting quick reference chart

Function number	Control	Setting number	Action	
			(-100, -300, -500)	(-150, -350, -550)
CUST-1	AF/shutter-release priority	1	AF priority (AFP)	
		2	Release priority (RP)	
CUST-2	Film rewind start	1	Automatic	
		2	Manual	
CUST-3	Film leader	1	Rewound into cartridge	
		2	Left out of rewind cartridge	
		3	Left out of rewind cartridge (can be accessed to film-reloading function)	
CUST-4	DX memory	1	Off	
		2	On	
CUST-5	Shutter-release lock when the film is not loaded	1	Shutter can be released	
		2	Shutter is locked	
CUST-6	Lens focus-hold button	1	Focus hold	
		2	Focus locked at center spot focusing area	
		3	Continuous AF	
CUST-7	Eyepiece sensor	1	On by Main Switch and Grip sensors	
		2	On by Main Switch only.	
CUST-8	Frame counter	1	Normal	
		2	Count-down	
CUST-9	AF area selection	1	Wide or local	
		2	Center only while the AF Button is pressed down	
CUST-10	AE-lock	1	AE is locked while the AE-Lock Button is pressed and held.	
		2	AE is locked and unlocked by each press of AE-Lock Button.	
CUST-11	Exposure bracketing/Flash bracketing sequence	1	Optimum → Under → Over	
		2	Under → Optimum → Over	
CUST-12	Film rewind speed	1	Fast	
		2	Slow or silent	
CUST-13	Metered value (SS & aperture) retaining time in on-body and viewfinder Data panel.	1	5 sec.	
		2	10 sec.	
		3	30 sec.	
CUST-14	Local focus area in viewfinder	1	Always appears for 0.1 sec. at AF Lock	
		2	Always appears for 0.4 sec. at AF Lock	Always appears for 0.6 sec. at AF Lock
		3	Appears only when AF Button is pressed	
CUST-15	Eye-Start Switch	1	Turns eye-start ON or OFF	
		2	Turns dial-lock ON or OFF, eye-start is always ON	
		3	Turns dial-lock ON or OFF, eye-start is always OFF	
CUST-16	The shutter-release lock when the lens unattached	1	Shutter is locked	
		2	Shutter can be released	
CUST-17	AF drive speed	1	Fast (speed priority)	
		2	Slow (silent priority)	
CUST-18	Front (F)/Rear (R) Control Dial function in P/A/S mode	1	P: F/R: No function A: F/R Aperture S: F/R Shutter-speed (SS)	
		2	P: F: PA, R: PS A: F/R: Aperture S: F/R Shutter speed	
		3	P: F: No function, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation	P: F: PA, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation
		4	-----	P: F: PS, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp. compensation
CUST-19	Front & Rear Control Dial operation	1	Normal as set in CUST-18	
		2	Altered as set in CUST-18	
CUST-20	Flash-metering	1	4-segment	
		2	Average	
		3	Spot in selected local focus area	
CUST-21	Exposure compensation display in Data Panel	1	No	
		2	Yes display appears only when the Dial is operated.	
CUST-22	AF illuminator	1	-----	Fires if necessary
		2	-----	Canceled
CUST-23	Front/Rear Control Dial Lock	1	-----	Off
		2	-----	On

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Data memory

- Pressing Memory Button, then turning Front/Rear Control Dial sets data memory mode on/off, or selects a film area.

On \longleftrightarrow rEAD F1 \cdots rEAD F7 \longleftrightarrow OFF \longleftrightarrow On

Storing data

- Pressing Memory Button, then turning Front/Rear Control Dial to select "ON", and pressing any button makes "DATA" appear in on-body Data Panel.
- 7 items can be stored in memory;
 - Shutter speed
 - Aperture
 - Lens focal length
 - Exposure-compensation
 - Metering mode
 - Flash compensation or flash off
 - Exposure mode
- Film area advances for every initial loading unless the film is rewound without single exposure.
- Film area starts from F1 to F7 then returns to F1 to over-write the F1 data.

Before over-writing the data, "ArEA" appears in Data Panel for warning.

Recalling data

- Memorized data can be recalled by following operations;
 - 1) Press Memory Button
 - 2) Turn Front/Rear Control Dial to select "rEAd"
 - 3) Press Adjust Button so that "DATA" blinks.
- Operation of following controls can recall specific data recall;
 - Front Control Dial: Frame number
 - Rear Control Dial: Shutter speed & aperture or Lens focal length & exposure-compensation
 - AE Lock Button: Exposure-mode, Flash Compensation or flash off
- Metering mode indication are as follows;
 - Hony: 14-segment-honeycomb metering
 - Spot: Spot metering
 - AvE: Center-weighted average metering
- "----" appears for no data frame.
- Shutter speed and aperture are the one appear in Data Panel.
- In case of exposure compensation in exposure-bracketing mode, the compensation is made to every bracketing frame.
- In case of flash compensation in flash-bracketing mode, the compensation is made to every bracketing frame.
- In multiple-exposure mode, only the first frame data are stored.

Clearing Data

- Pressing Memory Button and Adjust Button simultaneously makes "DATA" blink and "CLr" appear in Data panel.
- While in condition as above, pressing Memory Button again clears data and "CLr" blinks for 0.5 to 3 sec. Then the display returns to normal.

Customized Functions

Service function-1 (All displays turn on)

- Pressing and holding Rewind Button, installing batteries make all displays appear in on-body and viewfinder Data Panels as well as local-focus area indications. (See page 58, Repair Guide)

Service function-2 (SW check)

- While all displays turn on as above, pressing Rewind Button sets to SW check mode. (See page 56, Trouble-Shooting Chart)

Service function-3 (Err code display)

- Pressing and holding Shutter-Release Button all the way down and Rewind Button simultaneously. Current error code appears in display if any. (See page 7, Trouble-Shooting Chart)

Controls & Operations

Exposure mode

P mode

- By S0 or S1 on, Shutter-Speed and Aperture Displays appear.
- Shutter-speed and Aperture are automatically set.

Ps mode

- By S0 or S1 on, Shutter-Speed and Aperture Displays appear.
- Turning Front Control Dial selects shutter-speed setting.
- If metering changes by S0 or S1 on, the selected shutter-speed is kept and aperture is automatically set.

PA mode

- By S0 or S1 on, Shutter-Speed and Aperture Displays appear.
- Turning Rear Control Dial selects aperture setting.
- If metering changes by S0 or S1 on, the selected aperture is kept and aperture is automatically set.

A mode

- Aperture always appears in Data Panel.
- Turning Front/Rear Control Dial selects aperture setting.
- By S0 or S1 on, Shutter-Speed Display appears according to the aperture setting.

S mode

- Shutter-speed always appears in Data Panel.
- Turning Front/Rear Control Dial selects shutter-speed setting.
- By S0 or S1 on, Shutter-Speed Display appears according to the shutter-speed setting.

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M mode

- Shutter-speed and aperture always appear in Data Panel.
- Turning Front Control Dial selects shutter-speed setting, Rear Control Dial selects aperture setting.
- By S0 or S1 on, Metering Index appears in Viewfinder showing difference between manually set exposure and metered exposure.

Metering mode

14-segment honeycomb

- AE is locked when AF is locked.
- Back-lit compensation is made for back-lit scenes (Main subject is darker than background by 4-steps or more.)
- In AF mode, no back-lit detection.

Center-weighted average

- AE is not locked when AF is locked.
- No back-lit detection.

Spot

- AE is not locked when AF is locked.
- No back-lit detection.
- Metering is available only in the Spot-Metering Area in Viewfinder.

Meter index

- Meter index switches between 1/2EV or 1/3EV increments according to Exposure-Compensation Dial.

Mode	Information	Pointer position	"0" position
P/A/S mode	Exposure compensation	Exposure compensation setting	Metered exposure
P/A/S mode and AE Lock Button is ON	Difference between locked value and metered value	Difference between locked value and value of the spot-metering area.	Exposure value locked by AE Lock Button.(another pointer is always located at "0".)
M mode	Metered manual	Exposure settings made by the user	Metered exposure

Out of metering/control indication

- Following indication appears when the scene is out of metering or control range.
- Indications

Exposure mode	Viewfinder	Data Panel
P	"▲" and "▼"blinks.	Shutter-Speed & Aperture Displays blink
A, PA		Shutter-Speed Display blinks
S, PS		Aperture Display blinks
M		

- Conditions: With lens with open aperture f/1.4 or faster.

Metering mode	Luminance	Luminance
14-segment honeycomb	BV -5 or below	BV 15 or above
Spot	BV -2 or below	BV 15 or above
Center-weighted average	BV -5 or below	BV 15 or above

Flash

- Flash-On Indicator appears in viewfinder when flash charge completes.
- Shutter is locked and Flash-Ready Indicator blinks during flash charge.
- Recycling time (single advance, no red-eye)
3.2 sec (5.6V, 0.6ohm using Power Supply Adapter.)
- Flash-ready Indicator blinks in 2Hz during flash control
- Flash metering system controlled by magnification and focal length

		Magnification			
		Large (Macro area)	Medium large (Portrait area)	Medium small (snapshot area)	Small (Landscape area)
Distance between subject and background	Small	Average metering	Average metering	Average metering	Average metering
	Medium	Average metering	Weighted on subject segment	Balanced between subject segment and surroundings	Average metering
	Large	Average metering	Weighted on subject segment	Weighted on subject segment	-----

- Out-of-control-range indication

Exposure mode	Indication
S mode	Aperture Display blinks
A mode	Shutter-Speed Display blinks for SS slower than; 1/300 (normal flash), 1/60 (wireless) 1/12000 (HSS)

CHECK
LIST**Fill flash**

- Raising built-in flash up or turning on dedicated on-camera flash makes Flash-On Indicator appear in viewfinder and flash always fires.

Wireless flash

- Setting camera to wireless-flash-mode automatically controls the on-camera-flash to wireless mode if it features wireless function. Camera's flash channel is set to the one of the on-camera-flash.
- Pressing AE-Lock Button makes a test burst.
- Wireless-ratio photography is available by pressing Shutter-Release Button while sliding Data-Panel Illuminator to on. (Built-in flash: off-camera flash=1:2)

Red-eye reduction flash

- Flash fires several pre-burst prior to main burst.

High speed sync flash (HSS)

- With 5400HS flash, HSS is available in the shutter speed range from 1/12000 to 1/300 (excluding 1/300)

Setting	HHS		Indications
	P	A/ S/ M	
Bounce	×	×	No distance, HHS indications
With off-camera cable	×	○	No distance indication
On-camera and off camera flashes	○	○	Distance indication for on-camera
Several off camera and on camera flashes	×	○	No distance indication
Several flashes including 5400HS	×	×	HSS is not available. To resume HSS, press flash's button.

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M mode

- Shutter speed faster than 1/300 sec. automatically switches flash to HSS.

S mode

- Shutter speed faster than 1/300 sec. automatically switches flash to HSS.
- Shutter-speed and aperture are controlled 1-stop underexposure for current scene so that optimum exposure is obtained with flash.

A mode

- If shutter speed required for the set aperture is faster than 1/300, flash is switched to HSS.
- Shutter-speed and aperture are controlled 1-stop underexposure for current scene so that optimum exposure is obtained with flash.

P mode

- If shutter speed required for the set aperture is faster than 1/300, flash is switched to HSS.

Rear-flash sync

- Shutter speed 1/60 sec. or slower automatically switches flash to rear-flash sync.
- Rear-flash sync is available with built-in flash, dedicated flashes attached to accessory shoe or PC terminal.
- Rear-flash sync is available with flash connected to PC terminal.
- When 5400HS is attached and rear-flash sync is set, if shutter speed is faster than 1/300 sec, flash is controlled as HSS.

Flash attached to cable

- Wired ratio photography is available.
- In wired ratio photography, shutter speed is set to 1/60 or slower.
- AF illuminator lights.

Film transport

Initial load

- Film speed of the loaded film appears for 5 sec. when initial load completes. Operating any button within the 5 sec. makes the indication disappear.
- When initial load fails, shutter is locked, and film speed display and cartridge mark blinks.
- Initial load does not start while Main Switch is off.

Film advance

- Frame counter increases/decreases for each exposure according to customized setting CUS_t 8.
- When remaining frame is less than 10, it appears in Frame Remaining Counter in viewfinder and decreases accordingly.

Film rewind

- Film automatically/manually starts rewind at the film end according to customized setting CUS_t 2.
- Auto-rewind starts when;
 - DX coded film:
 - 24 or 36 exp.: number of frames are exposed
 - less than 24 exp.: film stretches at the end
 - Non DX coded film:
 - Less than 36 exp.: film stretches at the end
 - 36 exp. or more: 36th frame is exposed
- Number in Frame Counter decreases during film rewind.
- Film quickly/slowly rewinds according to customized setting CUS_t 12.
- Pressing Rewind Button during rewind switches the above setting.
- Sliding Main Switch to OFF during rewind stops the rewind.
- "0" blinks in Frame Counter when film rewind completes.
- Film tip of the rewound film is set according to customized setting CUS_t 3.

Drive mode

Single

- Shutter can be released in AF/Release priority according to customized setting 1.
- Pressing and holding Shutter-Release Button all the way down makes a single exposure.

Continuous

- Pressing and holding Shutter-Release Button all the way down makes continuous exposures.
- High speed

Focus mode	Continuous advance
Manual	5.5fps (4.5fps while data memory to DM-9 is selected)
AF-S (One-shot)	5.5fps (4.5fps while data memory to DM-9 is selected)
AF-C (Continuous)	4.5fps
AF-A (Auto)	4.5fps

- Low speed: 2fps

Self-timer

- Shutter is released with the metered exposure when Shutter-Release Button is pressed.

2-sec. delay

- Shutter is released 2 sec. after Shutter-Release Button is pressed.

10-sec. delay

- Shutter is released 10 sec. after Shutter-Release Button is pressed and Self-timer lamp operates as follows;
Blinks in 2Hz (8sec.) → Blinks in 8 Hz (2sec.) → Shutter-release

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Exposure bracketing

- AE is locked in sequential exposures.
- In continuous AF mode, shutter cannot be released if AF is not confirmed.
- Exposure-compensation is available.
- In M mode, pressing AE-Lock Button for the first exposure continues aperture control for successive exposures.
- Exposure control in bracketing;

Exposure mode	Controls
P	Shutter-speed and aperture changes
S, PS	Aperture changes
A, PA	Shutter-speed changes
M	Shutter-speed changes Aperture changes by pressing Shutter-Release Button while AE-Lock Button is pressed down.

Single bracketing and flash bracketing

- Pressing and holding Shutter-Release Button all the way down makes a single exposure.
- The next number of exposure appears in Data Panel as “brX” or “FbrX”. This indication appears also in viewfinder while S0 is ON.
- Shutter speed and aperture displays don’t appear until all sequential exposures complete.
- Automatic film-rewind-start before the sequence completes does not reset exposure or flash bracketing to the first frame.
- AF mode is not the same through the sequential exposures.
- Bracketing sequence continues even exposure mode is changed. Metered value is locked at the first exposure.

Continuous exposure bracketing

- Pressing and holding Shutter-Release Button all the way down makes continuous exposures up to determined frames.
- Lifting the finger from Shutter-Release Button during continuous exposure quits bracketing sequence mid-way.
- Automatic film-rewind-start-before the sequence completes resets exposure bracketing to the first frame.

Multiple exposure

- In multiple exposure mode, “ME” appears in on-body Data Panel.
- The next number of multiple exposure appears in Data Panel from “M2” to “M9”.
- Frame Counter does not advance/decrease during multiple exposure.
- Film does not advance until Drive Mode Lever turns away.
- If Data Memory Back is attached, the first exposure data is stored in memory.

Focus**AF mode**

- Regardless of AF-Mode Dial position, continuous AF is selected when S0 is on. AF is not locked by S0 on.
- Pressing AF Button locks focus when confirmed.
- Focusing starts by S0 or S1 on and Focus Signal appears in viewfinder;
 - lights: Focus is confirmed and locked
 - ((●)) lights: Focus is confirmed with continuous AF
 - (()) lights: Focus is not confirmed with continuous AF
 - blinks: Focus is not confirmed; subject is low-contrast
 - Nothing: Searching focus point.

Single-shot (S)

- Focus is always locked when confirmed.

Automatic (A)

- Focus is locked when confirmed and the subject is static.
- Focus is not locked when it is confirmed and the subject is dynamic.
- In continuous film advance, predictive continuous AF operates on and after the 2nd frame.

Continuous (C)

- Focus is not locked when confirmed.

MF mode

- Focus signal appears by S0 or S1 ON;
 - lights: Focus is confirmed
 - Nothing: Focus is not confirmed, low-contrast subject

AF Button

- Pressing AF Button on makes a local focus area appear in viewfinder when focus is confirmed. (Not when continuous AF is selected.) Local focus area also appears by S1 on.

“□___”、 “_□_”、 “___□”
- Pressing AF Button starts focusing using a specific local focus area;

CUS9-1: Local focus area selection available by pressing and holding AF Button while turning Front/Rear Control Dial;

...[] ↔ ___□ ↔ _□_ ↔ □___ ↔ []...

CUS9-2: Center focus area only.

In AF mode

- Pressing AF Button locks focus when confirmed.
- When wide focus frame is selected, a local focus area appears when it confirms focus for the period determined by customized setting CUS14.
- Luminance of local focus areas vary according to subject luminance.

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In MF mode

- Pressing AF Button makes focus signal appear in viewfinder when focus is confirmed.

AF illuminator

- In single-shot or automatic AF mode, and when the subject is low-contrast or low-light (BV5.5 or below), AF illuminator lights by S0 or S1 on or by pressing AF Button.
- When dedicated flash is attached, AF illuminator of the flash lights for subject below BV-5. (excludes 1st generation AF flashes)
- AF illuminator does not light if;
Continuous AF mode
Telephoto lens longer than 300mm
Macro lens X1-X3.

AE Lock button

- AE Lock Button operates according to customized setting CUS10.
- Pressing AE Lock Button makes locked shutter-speed and aperture appear in Data Panels for the period determined by customized modification CUS13.
- Exposure compensation is available to the locked exposure.
- "AEL" appears while AE is locked
- Meter index shows difference between locked exposure (0) and the one metered by the spot focusing area. (They don't appear if built-in flash is up.)
- In flash photography, pressing AE Lock Button makes slow-shutter-sync.
- In wireless flash mode, pressing the button makes a test burst.
- In M mode and bracketing photography, pressing the button while shutter release changes aperture setting instead of shutter speed for bracketing.
- In M mode, pressing the button affixes pointers in Meter Index.
- In M mode, pressing and holding the button while turning Front/Rear Control Dial shift shutter speed and aperture settings.
- When recalling data in memory, pressing the button shows exposure mode and flash compensation, and metering mode.
- AE is unlocked when;
 - Main Switch is operated
 - Metering-Mode Switch is operated
 - Built-in flash is up/down
 - Lens is replaced

Data-Panel Illuminator

- Sliding Data-Panel Illuminator lights up the Data-Panel for the period determined by customized setting CUS_t 13. Sliding the illuminator while Data Panel is lit will extend lighting time.
- In wireless flash mode, pressing Shutter-Release Button while sliding and holding Data-Panel Illuminator to on controls flash as ratio photography; built-in flash: off-camera flash = 1 : 2
- Even when CUS_t 5-2 (shutter locks while film is not loaded) is set, pressing Shutter-Release Button while sliding and holding Data-Panel Illuminator makes a shutter-release available.

Depth-of-field Preview Button

- Pressing the button stops down the aperture.
 - Aperture is kept stopped down while the button is pressed and held.
 - Aperture can not be changed while the button is pressed and held.
 - Focus operation stops while the button is pressed and held.
 - Shutter-release is available while the button is pressed and held.
- *If AF priority is selected by CUS_t 1-1, aperture stops down after a focus is confirmed.

Exposure compensation

- In flash photography and when exposure compensation is set, exposures are compensated with flash output as well as shutter speed and aperture combination.
- * Flash distance indication in accessory flash shows shifted distance
- Compensation is observed with;
 - P mode: shutter speed and aperture shift
 - PA mode: Aperture shift
 - PS mode: Shutter speed shift
 - A mode: Aperture shift
 - S mode: Shutter shift
 - M mode: Meter Index shift
- Exposure compensation step in EV

1/2EV	-3.0	-2.5		-2.0	-1.5		-1.0	-0.5	
1/3EV	-3.0	-2.7	-2.3	-2.0	-1.7	-1.3	-1.0	-0.7	-0.3
1/2EV	0.0	0.5		1.0	1.5		2.0	2.5	
1/3EV	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7
1/2EV	3.0								
1/3EV	3.0								

- Exposure compensation step in f-number

1/2EV	1	1.2		1.4	1.7		2	2.4	
1/3EV	1	1.1	1.3	1.4	1.6	1.8	2	2.2	2.5
1/2EV	2.8	3.5		4	4.5		5.6	6.7	
1/3EV	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1
1/2EV	8	9.5		11	13		16	19	
1/3EV	8	9	10	11	13	14	16	18	20
1/2EV	22	27		32	38		45	54	
1/3EV	22	25	29	32	36	40	45	51	57
1/2EV	64								
1/3EV	64								

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- Exposure compensation step in shutter speed

1/2EV	30"	20"		15"	10"		8"	6"	
1/3EV	30"	25"	20"	15"	13"	10"	8"	6"	5"
1/2EV	4"	3"		2"	1.5"		1"	0.7"	
1/3EV	4"	3.2"	2.5"	2"	1.6"	1.3"	1"	0.8"	0.6"
1/2EV	0.5"	3		4	6		8	10	
1/3EV	0.5"	0.4"	3	4	5	6	8	10	13
1/2EV	15	20		30	45		60	90	
1/3EV	15	20	25	30	40	50	60	80	100
1/2EV	125	200		250	350		500	750	
1/3EV	125	160	200	250	500	400		640	800
1/2EV	1000	1500		2000	3000		4000	6000	
1/3EV	1000	1250	1600	2000	2500	3200	4000	5000	6400
1/2EV	8000	12000							
1/3EV	8000	10000	12000						

Flash compensation

- Flash compensation is available
- Compensation can be observed in data panel of an accessory flash.
- Meter Index is not changed
- Shutter-speed and aperture will not change.
- Flash bracket is made with compensation.

Other settings

Mid-roll reload (CUST 3-3)

- After rewinding a film at mid-roll, reloading the film and exposing to successive frames are available in following procedure;
 - Set to CUST 3-3.
 - Reload the film so that "1" appears in Frame Counter.
 - Press and hold Adjust Button for 3 sec. or more.
 - "1" starts blinking in Frame Counter.
 - Turn Front/Rear Control Dial to desired number of frames.
 - Press Adjust Button. Film advances to the set number of frame.

Shutter lock without film with lens

- If film is not loaded while lens is attached, shutter lock warning appears;
 - "0" starts blinking in Frame Counter of on-body and viewfinder Data Panels.
- Shutter-release is available without film unless CUST 5-1 is set when;
 - Back-cover is open
 - Data-Panel Illuminator is slid and held to on.

Exposure compensation with Rear Control Dial (CUST 18-3)

- If CUST 18-3 is selected, exposure compensation is available with Rear Control Dial when exposure mode is P, A, or S, and Exposure-Compensation Dial is set to "0".

Manual shift

- In M mode, after shutter speed and aperture are determined, pressing AE Lock Button while turning Front/Rear Control Dial can shift shutter-speed and aperture settings.
- If CUST 10-2 is selected, pressing AE Lock Button and turning Front/Rear Control Dial can shift shutter-speed and aperture settings. Pressing AE Lock Button again resumes the operation.

Focal-length indication for xi lenses

- Pulling zoom ring toward camera while S0 is on makes focal length indication appear for 5 sec. in on-body and viewfinder Data Panels.
- Zooming the lens while the focal length appears extends indication time for another 5 sec.
- Zooming the lens while the focal length appears changes indication accordingly.

Diopter Adjustment Dial

- Diopter can be adjusted within the range from -3 to +1.
- Default position is around -1.

PC Terminal

- Positive and negative-tip polarity flash can be used.

Remote-Control Terminal

- The cover shuts completely.

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Standard

Exposure

Manual shutter speed

- (See page39, Repair Guide.)

SS	Period (ms)	Tolerance (ms)	Allowable range	Exposure variation
1/12000	0.086	0.055~0.135	Within 0.45EV	Difference between Max. and Min. value among range A, B, and C: Within $\pm 0.75\text{EV}$ Difference between range A & B, C & C, and B & C: $+0.55\text{EV}$ to -0.30EV
1/8000	0.122	0.083~0.179		
1/4000	0.244	0.179~0.334		
1/2000	0.488	0.370~0.644	Within 0.30EV	
1/1000	0.977	0.740~1.289		
1/500	1.95	1.590~2.400		
1/250	3.91	3.170~4.810		
1/200	5.00	3.800~6.170		
1/125	7.81	6.350~9.620		
1/60	15.60	12.70~19.20		
1/30	31.30	29.20~33.50		
1/15	62.50	58.30~70.00		
1/8	125.00	117.00~134.00		
1/4	250.00	233.00~268.00		
1/2	500.00	467.00~539.00		

X-sync time lag

- (See page 39, Repair Guide) •

Shutter speed	Item	Allowance
1/300 (1-60)*	X-sync delay time	0.35ms or longer
	From X on to 2 nd curtain appearance	1.14ms or longer (3.5ms or longer)

* Figures in brackets () are for rear-flash sync.

Auto

- AE level: with 50/1.7 lens, ISO 100, K-value 1.3

(See page 38 , Repair Guide) •

Exposure mode	Metering mode	Luminance	Allowance
P	14-segment honey comb	EV15	Within $0 \pm 1.0 \text{ EV}$
		EV12	
		EV10	
		EV6	

Flash level

- Flash level: with 50/1.7 lens, ISO 100 (See page 40 , Repair Guide) •

$f/2.8+0.85\text{EV} - f/4+0.85 \text{ EV}$

Film transport

Initial load

- Required time with 5.8V. 0.6ohm using Power Supply Adapter, with film Kodak Gold 100, 24-exp.

0.6 sec. or faster

Film advance

- Required time with 5.8V. 0.6ohm using Power Supply Adapter, with film Kodak Gold 100, 24-exp.

High speed: 5.5 fps (or 4.5 fps for continuous AF)

Low speed (silent): 2 fps

Film rewind

- Required time with 5.8V. 0.6ohm using Power Supply Adapter, with film Kodak Gold 100, 24-exp.

High speed: within 6 sec.

Flash recycling time

- Recycling time: with 5.8V. 0.6ohm using Power Supply Adapter

About 3.2 sec.

Current leak

- With 5.8V. 0.6ohm using Power Supply Adapter


Condition	Allowance
At Main Switch LOCK	30 μ A or less
At Main Switch ON	50 μ A or less


BC check level

- With 1.1ohm using Power Supply Adapter (See page 53, Repair Guide.)


4.75V to 4.95V

- Battery condition indicator appears in 4-step.

 Full-battery symbol

 Low-battery symbol

 Blinking low-battery symbol

 Blinking low-battery symbol appears alone and the shutter locks.

Auto power off (APO)

- About 10 min. after Grip Sw. is on while S0 is off, eye-sensor stops.
- About 4 min. after exclusively S0 on, it turns off.
- About 4 min. after AF Button is pressed and held, AF Button Sw. turns off
- With xi lens, about 3 min. and 30 sec. after PZ ring Sw is on, it turns off
- With xi lens, about 1min. and 30 sec. after PF ring Sw is on, it turns off
- With xi lens, about 2 minutes and after Ring Sw is on, it turns off
- About 3 minutes after lens is attached not securely, current leak stops.

Item	APO operates after about
Grip Sw.on	10 min.
S0 on	4 min.
AF Button on	4 min.
PZ Sw. on	3min.30 sec.
PF Sw. on	1min.30sec.
Ring Sw. on	2 min.
AF coupler (Lens is not attached correctly)	3 min.

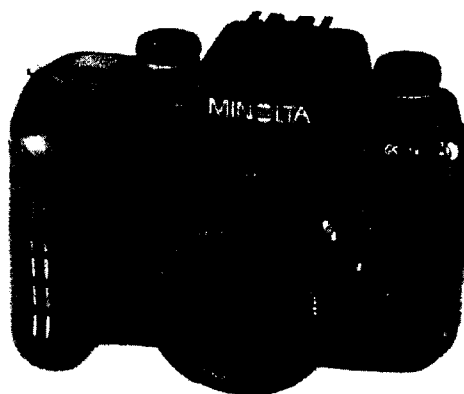
Body Back

- (See page 36, Repair Guide.)

$44.7 \pm 0.015\text{mm}$ (44.685 to 44.715mm)
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MINOLTA DYNAX 9
MINOLTA MAXXUM 9
MINOLTA α -9

(2098-100)
(2098-300)
(2098-500)

**Type**

: 35mm SLR with built-in flash, autoexposure (AE), and autofocus (AF)

Lens

: Minolta A-type bayonet mount

Shutter

Type : Electronically-controlled, vertical-traverse, focal-plane type
 Speed : 1/12000 - 30 sec., Bulb
 Flash sync speed : 1/300 or slower (synchronizes with all speeds in HSS mode)
 Self-timer : Electronic with 10 sec or 2 sec delay; Cancelable (indicated by LED lamp)

Exposure

Exposure Modes : P, A, S, M (PA, PS available as a custom function);
 Manual setting in 0.3EV or 0.5EV-stop increments
 Type : Through-the-lens (TTL) metering; direct TTL metering for flash
 Metering Cell : Ambient: 14-segment honeycomb, center weighted average, spot (\varnothing 5.5mm)
 Flash: 4-segment SPC

Metering Range (f/1.4, ISO100)
 : 14-segment metering: EV 0-20,
 Spot metering: EV 3-20
 Center weighted average metering: EV0-20

Film-speed Setting

: Automatic setting for DX-coded film from ISO 25 to 5000.
 Previous setting for non-DX-coded film.
 Manual setting from ISO 6 to 6400 in 1/3EV-stop increments.
 Recommended range for flash: ISO 25 - 1000

Exposure compensation

: ± 3 EV (1/2-stop increments) or ± 2 EV (1/3-stop increments)

Flash compensation

: ± 3 EV (1/2-stop increments)

AE Lock

: Available with AE-Lock Button automatically or when focus is locked.

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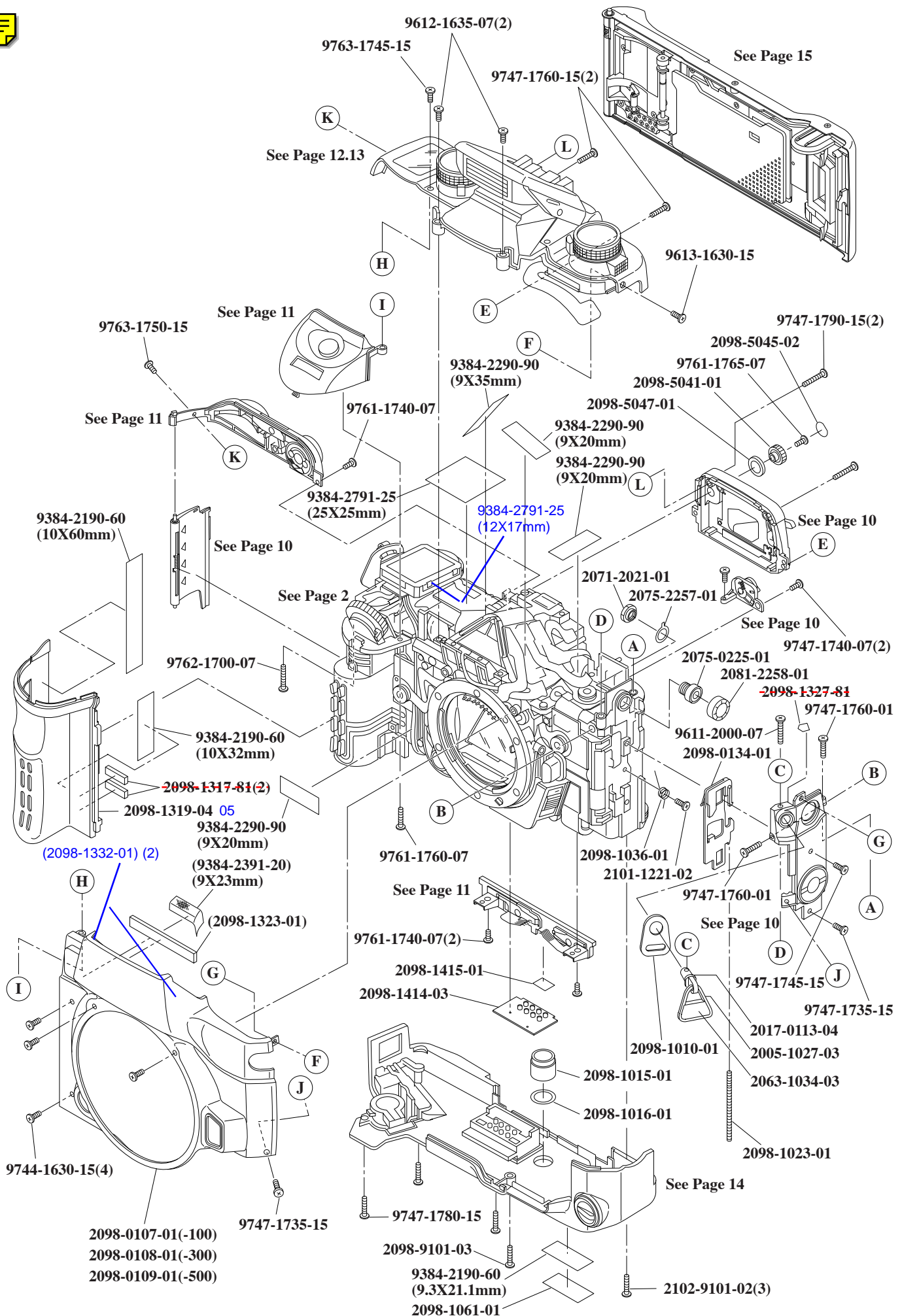
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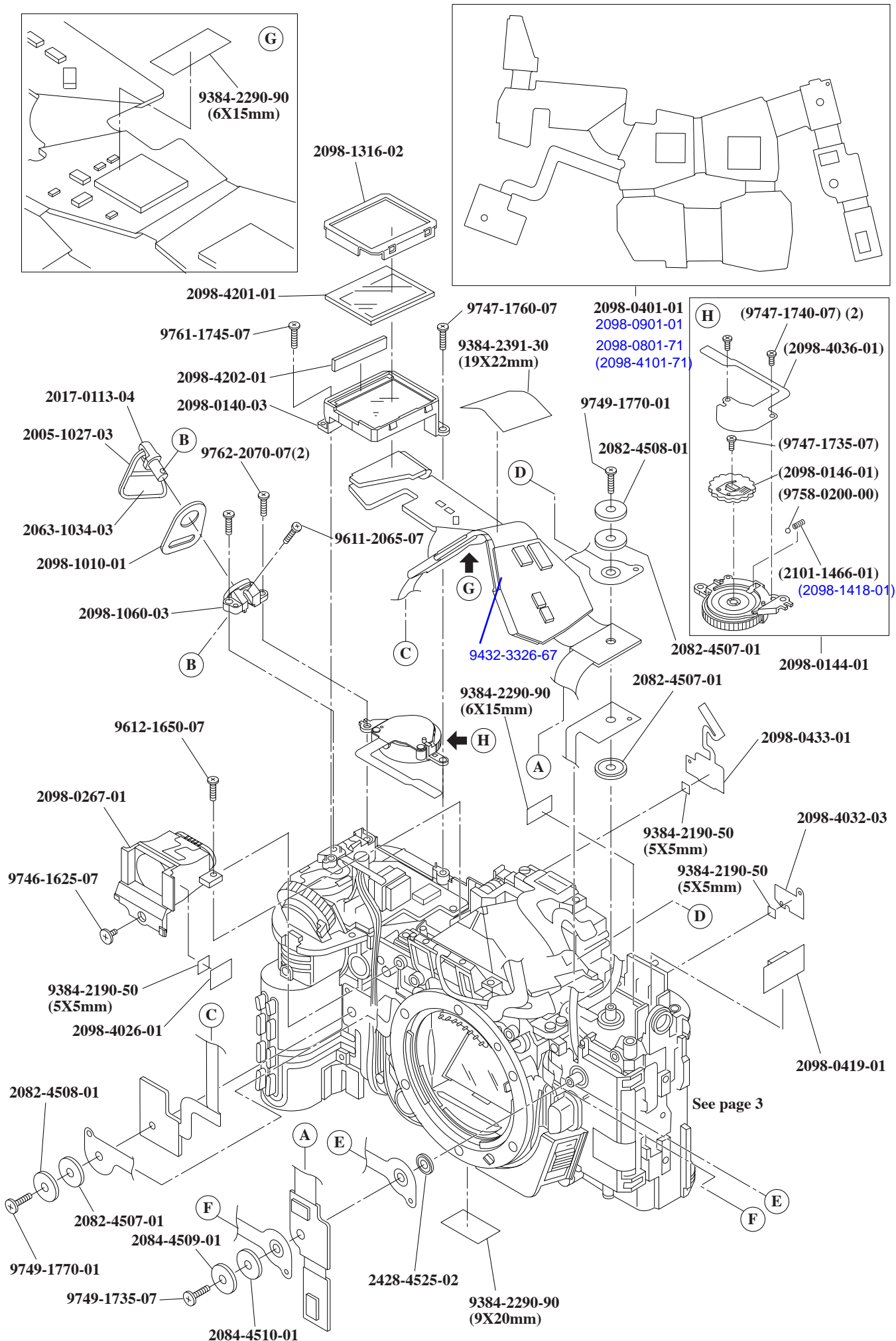
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2102-9101	1	9747-1755-01	4		
		9747-1755-07	4	9794-1735-40	7
9384-2190-50	2,3,4,6,	9747-1760-01	1		
	8,9,14,15	9747-1760-07	2	9795-4160-40	10
9384-2190-60	1,3	9747-1760-15	1		
9384-2290-90	1,2,5,7	9747-1780-15	1		
9384-2391-20	1,9,12,15	9747-1790-15	1		
9384-2391-30	2				
9384-2791-25	1,3,6,15	9748-1730-01	14		
		9748-1740-07	5		
9611-2000-07	1	9748-1750-07	13		
9611-2040-04	8				
9611-2050-07	3	9749-1730-07	14,15		
9611-2065-07	2	9749-1735-01	13		
		9749-1735-07	2,10,13		
9612-1625-07	3	9749-1770-01	2		
9612-1630-07	8				
9612-1635-01	8	9758-0150-00	13		
9612-1635-07	1,8	9758-0200-00	2,4,13		
9612-1650-07	2	9758-0250-00	14		
9612-1670-07	7				
9612-1680-07	7	9761-1735-07	8,12		
9612-2045-07	3	9761-1740-07	1,5,7,13		
		9761-1745-07	2,7		
9613-1630-15	1	9761-1760-07	1		
		9761-1765-07	1		
9744-1620-15	12	9761-2045-01	6		
9744-1625-01	10	9761-2060-07	3		

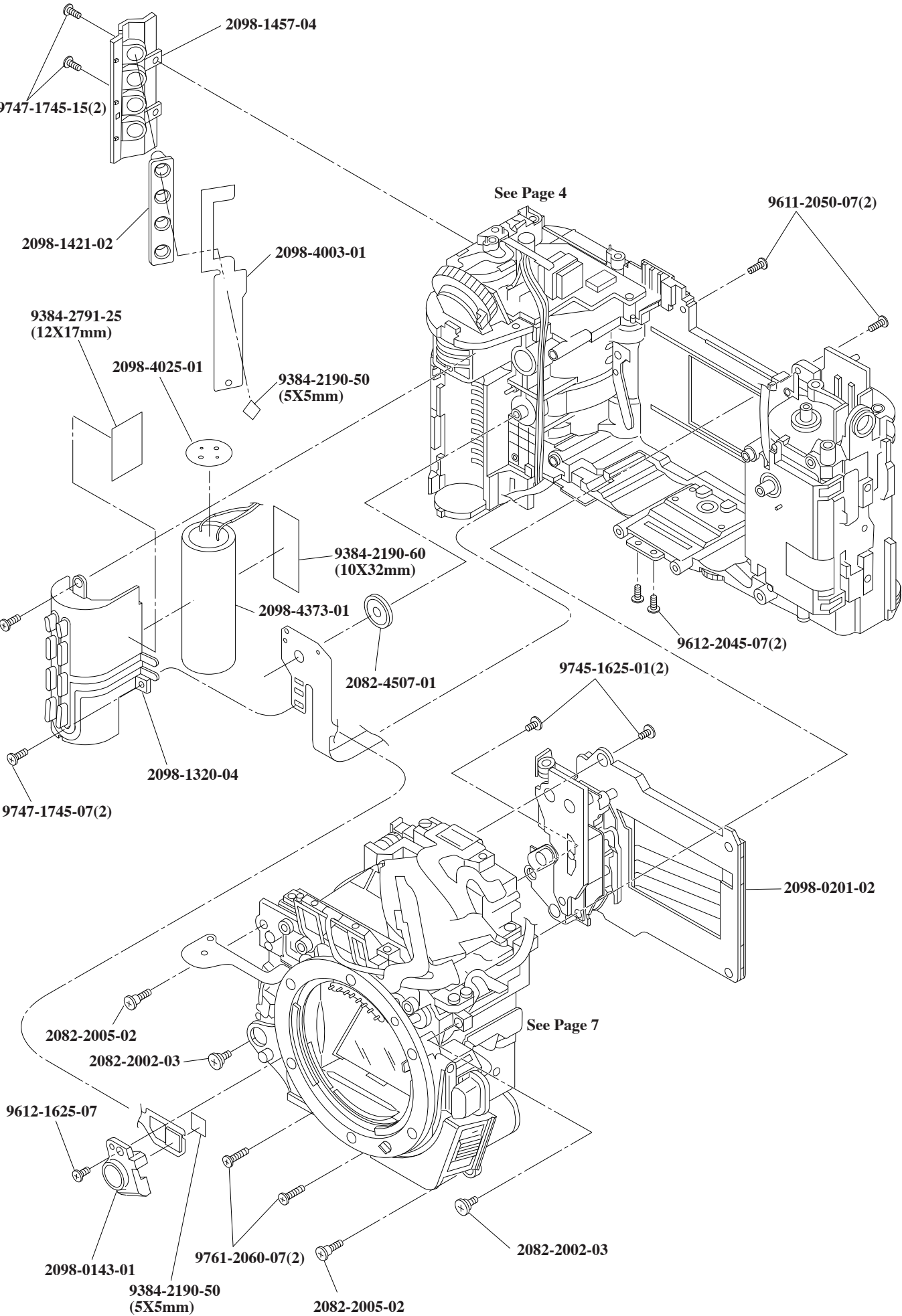




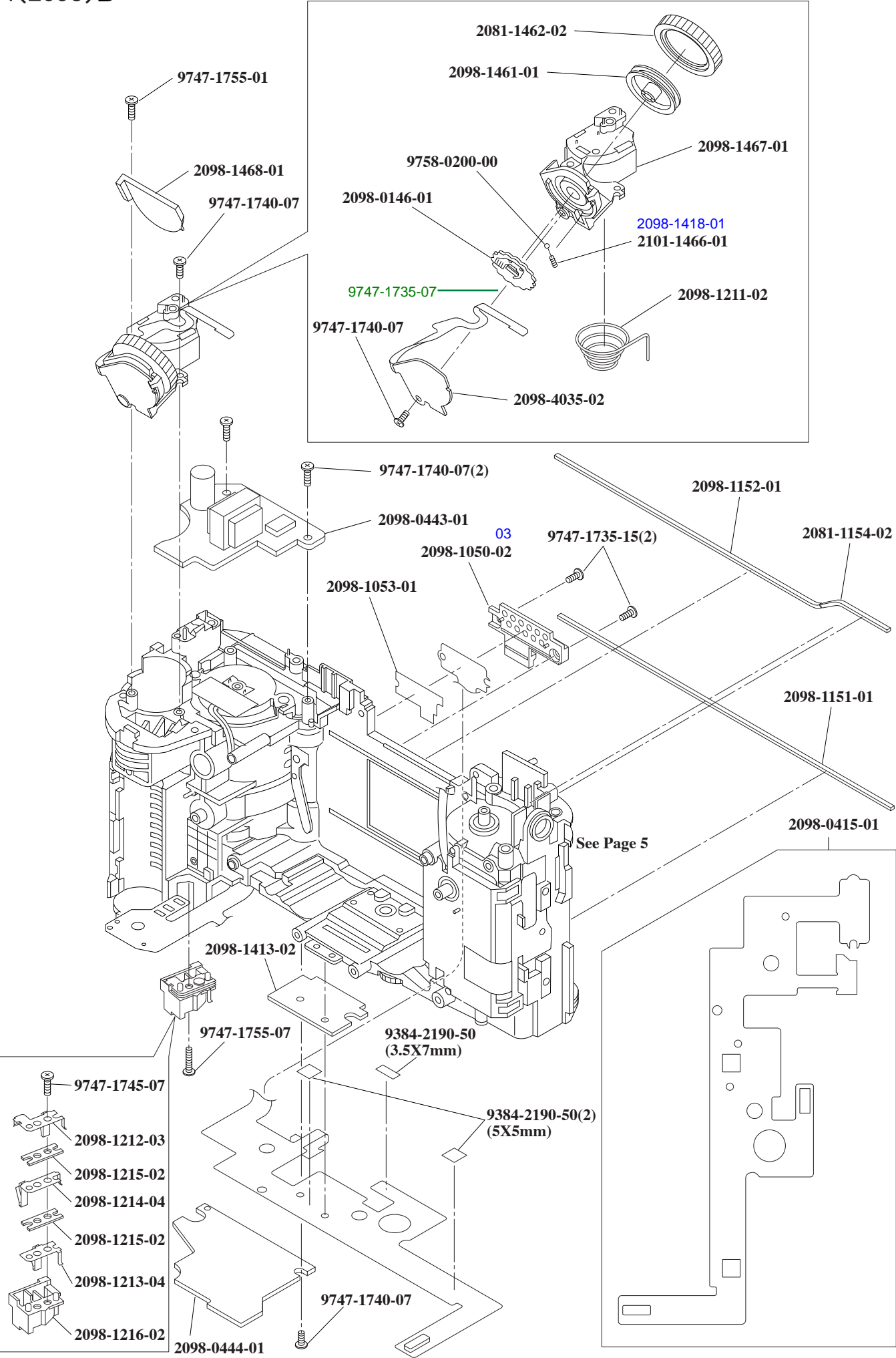
PART NO.	PART NAME		QTY.
2098-0107-01	FRONT COVER ASSY (-100)	前カバーセット (- 1 0 0)	} 1
2098-0108-01	FRONT COVER ASSY (-300)	前カバーセット (- 3 0 0)	
2098-0109-01	FRONT COVER ASSY (-500)	前カバーセット (- 5 0 0)	
(2098-1323-01)	VIEWFINDER LIGHT SHIELD SHEET	F 遮光シート	1
(2098-1332-01)	TOP COVER DUSTPROOF SHEET	上カバー防塵シート	2
(9384-2391-20)	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
2017-0113-04	STRAP HANGER SET	吊環セット	1
2098-0134-01	BACK-COVER RELEASE LOCK ASSY	裏蓋開閉板セット	1
2075-0225-01	SYNCRO TERMINAL UNIT	シンクロターミナルユニット	1
2098-1010-01	STRAP EYELET PROTECTOR	三角環プロテクター	1
2098-1015-01	TRIPOD SCREW COLLAR	三脚ねじカラー	1
2098-1016-01	TRIPOD SCREW SHEET	三脚ねじシート	1
2098-1023-01	LOOK SP	裏蓋ロック S P	1
2005-1027-03	STRAP EYELET	三角吊環	1
2063-1034-03	TRIANGLE HANGER STOPPER	三角環回り止め	1
2098-1036-01	BACK-COVER RELEASE SP	裏蓋つまみ戻し S P	1
2098-1061-01	SERIAL NUMBER PLATE	ボディ N o . 銘板	1
2101-1221-02	SCREW	ねじ	1
2098-1317-81	GRIP SW. PRESSURE RUBBER	タッチ S W 押えゴム	2
*2098-1319-04	GRIP RUBBER	グリップゴム	1
2098-1319-05	GRIP RUBBER	グリップゴム	1
2098-1327-81	SHEET	シート	1
2098-1414-03	VC-GRIP INSULATION RUBBER	縦位置グリップ絶縁ゴム	1
2098-1415-01	SHEET	シート	1
2071-2021-01	SYNC. TERMINAL NUT	シンクロターミナル止めナット	1
2075-2257-01	SYNC. TERMINAL	シンクロターミナル板	1
2081-2258-01	SYNCRO TERMINAL CAP	シンクロターミナルキャップ	1
2098-5041-01	DIOPTER-ADJUSTMENT DIAL	視度調ダイヤル	1
2098-5045-02	DIOPTER-ADJUST SHEET	視度調銘板	1
2098-5047-01	DIOPTER-ADJUST DUSTPROOF SHEET	視度調防塵シート	1
2098-9101-03	SCREW	ねじ	1
2102-9101-02	SCREW	ねじ	3
9384-2190-60	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	3
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	4
*9384-2791-25	FILM TAPE (PER ROLL BROWN)	フィルムテープB	1 2
9611-2000-07	SCREW	十字穴付なべ小ねじ	1
9612-1635-07	SCREW	ねじ	2
9613-1630-15	SCREW	ねじ	1
9744-1630-15	SCREW	ねじ	4
9747-1735-15	SCREW	ねじ	2
9747-1740-07	SCREW	ねじ	2
9747-1745-15	SCREW	ねじ	1
9747-1760-01	SCREW	ねじ	2
9747-1760-15	SCREW	ねじ	2
9747-1780-15	SCREW	ねじ	1
9747-1790-15	SCREW	ねじ	2
9761-1740-07	SCREW	ねじ	3
9761-1760-07	SCREW	ねじ	1
9761-1765-07	SCREW	ねじ	1
9762-1700-07	SCREW	ねじ	1
9763-1745-15	SCREW	ねじ	1
9763-1750-15	SCREW	ねじ	1



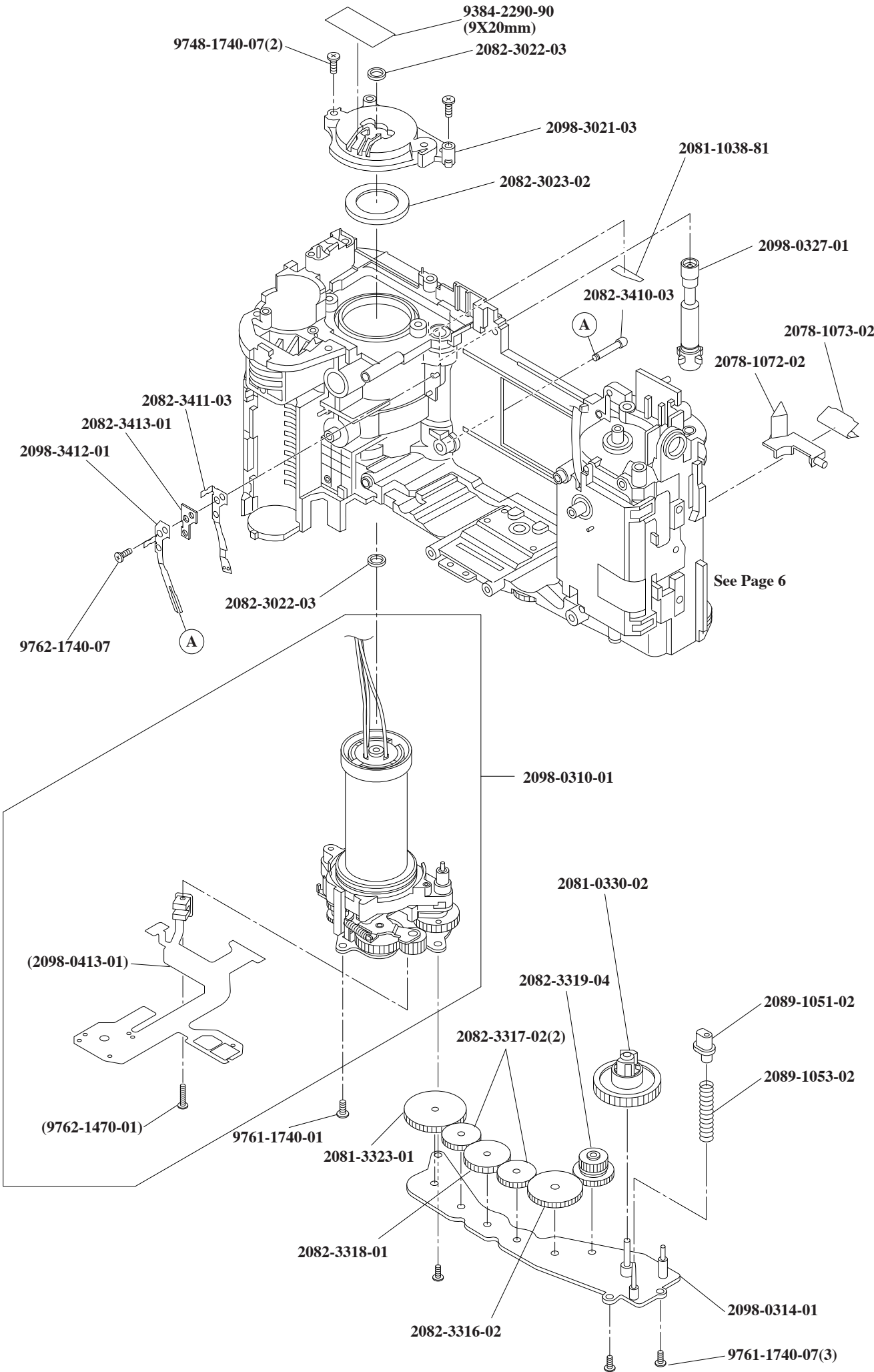
PART NO.	PART NAME		QTY.
2017-0113-04	STRAP HANGER SET	吊環セット	1
2098-0140-03	LCD1 BASE ASSY	LCD1台板セット	1
2098-0144-01	REAR DIAL ASSY	後ダイヤルセット	1
(2098-0146-01)	DIAL CONTACT ASSY	ダイヤル接片セット	1
(2098-1418-01)	DIAL SP	ダイヤルSP	1
*(2101-1466-01)	DIAL SP	ダイヤルSP	1
(2098-4036-01)	REAR DIAL FPC	後ダイヤルフレキ	1
(9747-1735-07)	SCREW	ねじ	1
(9747-1740-07)	SCREW	ねじ	2
(9758-0200-00)	STEEL BALL	スチールボール	1
2098-0267-01	AF-ILLUMINATOR ASSY	補助光セット	1
2098-0401-01	FPC-A ASSY	Aフレキセット	1
2098-0419-01	FPC-S ASSY	Sフレキセット	1
2098-0433-01	PCB-W ASSY	W基板セット	1
2098-0901-01	FPC-A ASSY	Aフレキセット	1
2098-1010-01	STRAP EYELET PROTECTOR	三角環プロテクター	1
2005-1027-03	STRAP EYELET	三角吊環	1
2063-1034-03	TRIANGLE HANGER STOPPER	三角環回り止め	1
2098-1060-03	STRAP EYELET BASE	吊環押え板	1
2098-1316-02	LCD1 PRESSURE	LCD1押え	1
2098-4026-01	JUMPER FPC-2	ジャンプフレキ-2	1
2098-4032-03	FPC-V	Vフレキ	1
2098-4201-01	LCD1	LCD1	1
2098-4202-01	LCD1 RUBBER CONNECTOR	LCD1ゴムコネクタ	1
2082-4507-01	A-C-K RUBBER CONNECTOR	A-C-Kコネクターゴム	3
2082-4508-01	A-C-K CONNECTOR PRESSURE	A-C-Kコネクター押え板	2
2084-4509-01	RUBBER CONNECTOR	コネクターゴム	1
2084-4510-01	CONNECTOR PRESSURE	コネクター押え板	1
2428-4525-02	FPC RUBBER	FPC圧接ゴム	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	3
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	3
9384-2391-30	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
9611-2065-07	SCREW	ねじ	1
9612-1650-07	SCREW	ねじ	1
9746-1625-07	SCREW	ねじ	1
9747-1760-07	SCREW	ねじ	1
9749-1735-07	SCREW	ねじ	1
9749-1770-01	SCREW	ねじ	2
9761-1745-07	SCREW	ねじ	1
9762-2070-07	SCREW	ねじ	2



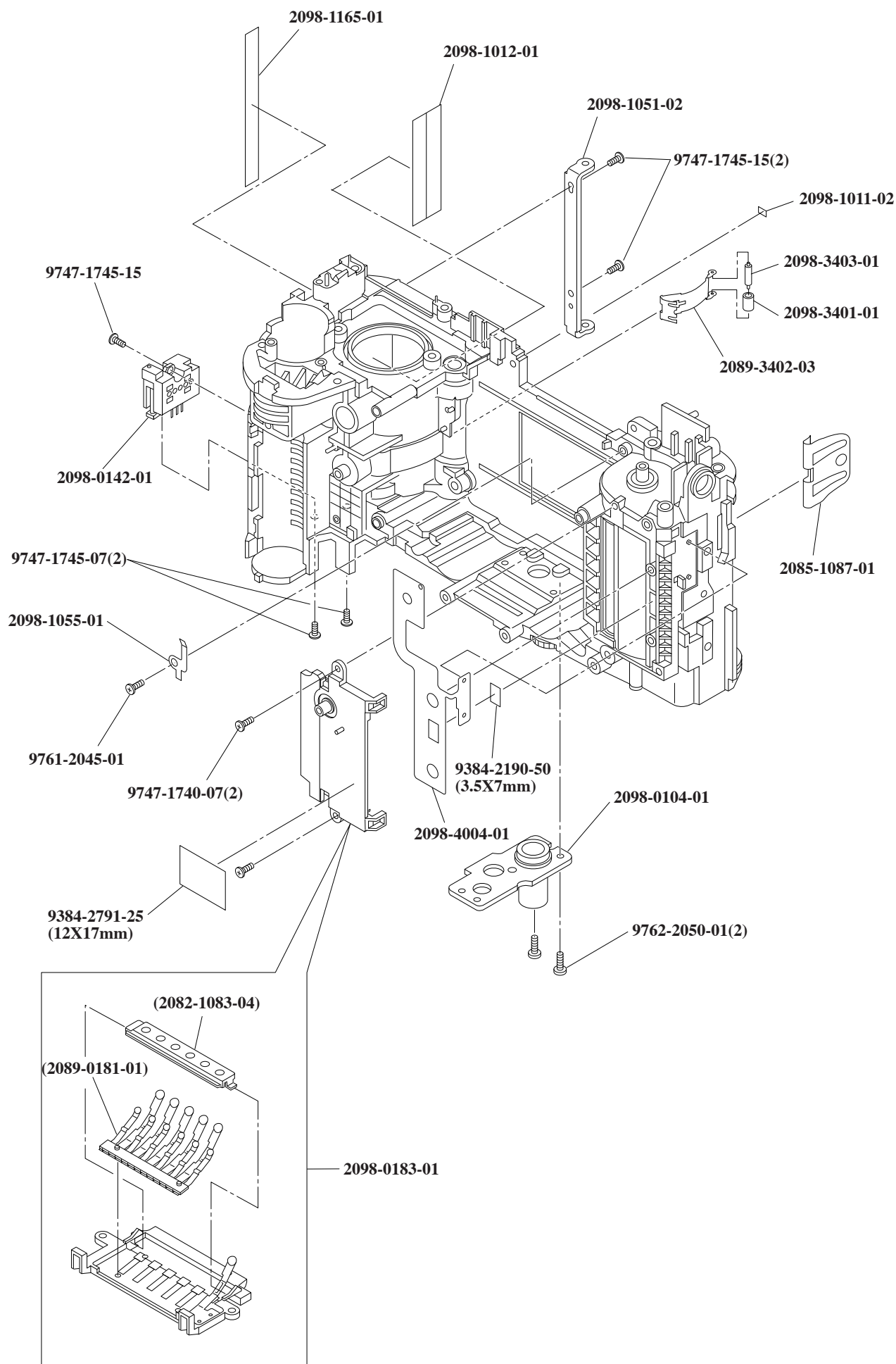
PART NO.	PART NAME		QTY.
2098-0143-01	PREVIEW BUTTON ASSY	PV釦セット	1
2098-0201-02	SHUTTER ASSY	シャッターユニット	1
2098-1320-04	MAIN CONDENSER HOLDER	メインコンデンサーホルダー	1
2098-1421-02	CONTROL-PANEL DOOR BUTTONS	ウイングカバー内釦	1
2098-1457-04	CONTROL-PANEL BUTTON COVER	釦ホルダー	1
2082-2002-03	SCREW	ねじ	2
2082-2005-02	SCREW	ねじ	2
2098-4003-01	FPC-C	Cフレキ	1
2098-4025-01	JUMPER FPC-1	ジャンプフレキ-1	1
2098-4373-01	MAIN CONDENSER (C157)	メインコンデンサ (C157)	1
2082-4507-01	A-C-K RUBBER CONNECTOR	A-C-Kコネクターゴム	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	2
9384-2190-60	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9384-2791-25	FILM TAPE (PER ROLL BROWN)	フィルムテープB	1
9611-2050-07	SCREW	十字穴付なべ小ねじ	2
9612-1625-07	SCREW	ねじ	1
9612-2045-07	SCREW	ねじ	2
9745-1625-01	SCREW	ねじ	2
9747-1745-07	SCREW	ねじ	2
9747-1745-15	SCREW	ねじ	2
9761-2060-07	SCREW	ねじ	2



PART NO.	PART NAME		QTY.
2098-0146-01	DIAL CONTACT ASSY	ダイヤル接片セット	1
2098-0415-01	FPC-O ASSY	Oフレキセット	1
2098-0443-01	FLASH PCB ASSY	フラッシュ基板セット	1
2098-0444-01	DC/DC CONVERTER PCB ASSY	DC／DCコンバーター基板セット	1
*2098-1050-02	SIGNAL PIN CONTACT HOLDER	裏蓋信号押え板	1
2098-1050-03	SIGNAL PIN CONTACT HOLDER	裏蓋信号押え板	1
2098-1053-01	SHEET	シート	1
2098-1151-01	SOUND PROOF SPONGE-A	防音片A	1
2098-1152-01	SOUND PROOF SPONGE-B	防音片B	1
2081-1154-02	SOUND-PROOF PLATE-D	防音片D	1
2098-1211-02	BATTERY CONTACT (-) A	電池接片(-)A	1
2098-1212-03	BATTERY CONTACT (-) B	電池接片(-)B	1
2098-1213-04	BATTERY CONTACT (+) B	電池接片(+)B	1
2098-1214-04	BATTERY DETECT SW	電池検知SW	1
2098-1215-02	BATTERY DETECT SW SPACER	電池検知SW間隔板	2
2098-1216-02	BATTERY CONTACT HOLDER	電池接片ホルダー	1
2098-1413-02	VC-GRIP SIGNAL PIN SHEET	縦位置グリップ信号ピンシート	1
2098-1418-01	DIAL SP	ダイヤルSP	1
2098-1461-01	FRONT DIAL ROLLER PLATE	前ダイヤル回転板	1
2081-1462-02	DIAL RUBBER	ダイアルゴム	1
*2101-1466-01	DIAL SP	ダイヤルSP	1
2098-1467-01	FRONT DIAL /BATTERY HOLDER	前ダイヤル／電池ホルダー	1
2098-1468-01	FRONT DIAL DUSTPROOF PLATE	前ダイヤル防塵板	1
2098-4035-02	FRONT DIAL FPC	前ダイヤルフレキ	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	3
9749-1735-07	SCREW	ねじ	1
9747-1735-15	SCREW	ねじ	2
9747-1740-07	SCREW	ねじ	5
9747-1745-07	SCREW	ねじ	1
9747-1755-01	SCREW	ねじ	1
9747-1755-07	SCREW	ねじ	1
9758-0200-00	STEEL BALL	スチールボール	1

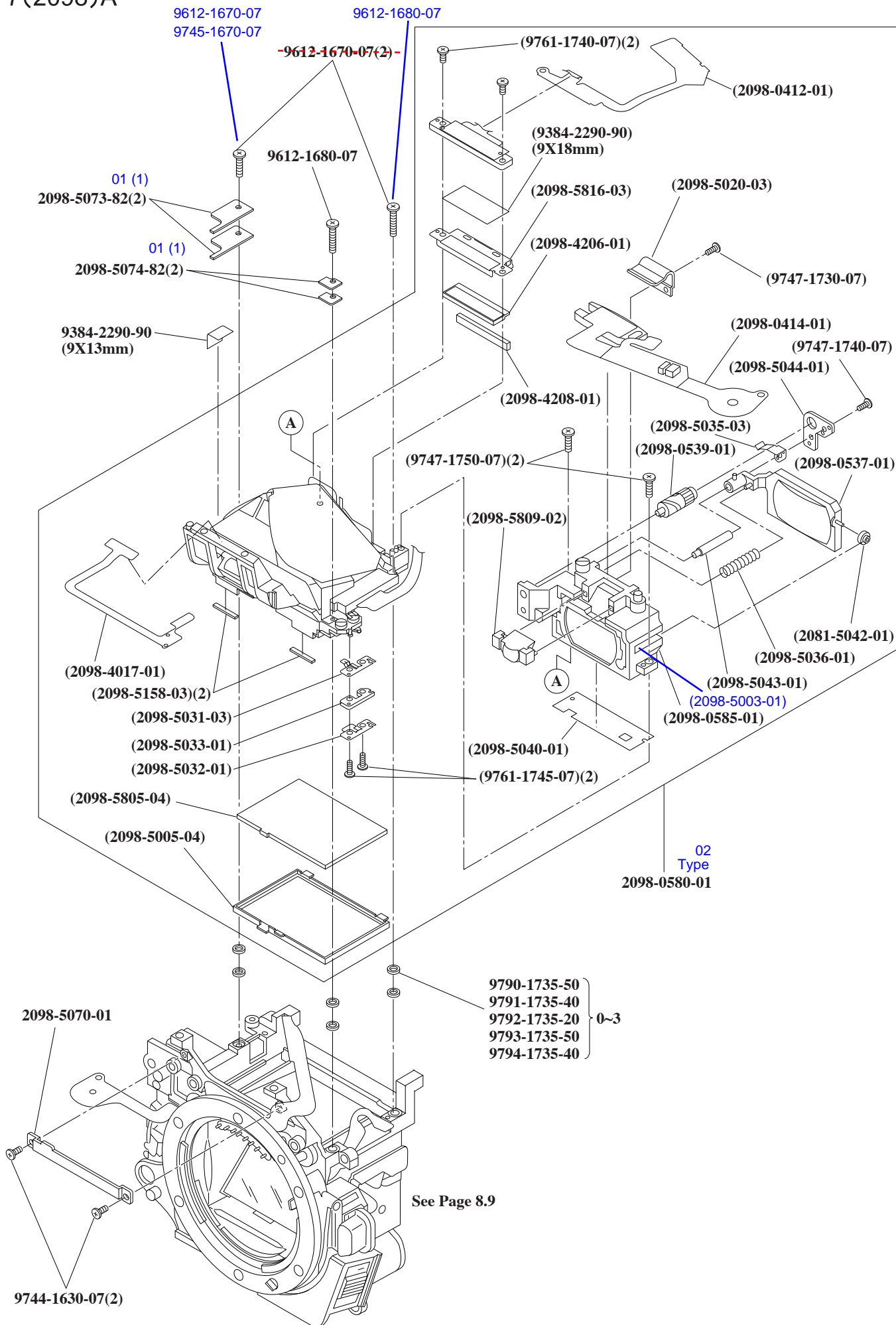


PART NO.	PART NAME		QTY.
2098-0310-01	WINDING BASEPLATE ASSY	巻上げ台板セット	1
(2098-0413-01)	FPC-M ASSY	Mフレキセット	1
(9762-1470-01)	SCREW	ねじ	1
2098-0314-01	REWIND BASEPLATE ASSY	巻戻し台板セット	1
2098-0327-01	SPROCKET ASSY	スプロケットセット	1
2081-0330-02	REWIND FORK GEAR SET	巻戻しフォークセット	1
2081-1038-81	SPROCKET PRESSURE PLATE	スプロケット押え板	1
2089-1051-02	FILM PUSH UP LEVER	パト押上レバー	1
2089-1053-02	FILM PUSH UP SP	パト押上SP	1
2078-1072-02	FILM CARTRIDGE RECEIVER	パトロ金受け	1
2078-1073-02	CARTRIDGE RECEIVER SP	口金受回転SP	1
2098-3021-03	WINDING MOTOR HOLDER	モータ保持台	1
2082-3022-03	MOTOR RUBBER HOLDER	モーター保持ゴム	2
2082-3023-02	SPOOL AXIS RECEIVER	スプール軸受け	1
2082-3316-02	REWIND GEAR-B	巻戻しギアB	1
2082-3317-02	REWIND GEAR-C	巻戻しギアC	2
2082-3318-01	REWIND GEAR-D	巻戻しギアD	1
2082-3319-04	REWIND GEAR-F	巻戻しギアF	1
2081-3323-01	REWIND GEAR-G	巻戻しギアG	1
2082-3410-03	FILM DETECT PIN	フィルム検知ピン	1
2082-3411-03	FILM DETECT CONTACT-A	フィルム検知接片A	1
2098-3412-01	FILM DETECT CONTACT (GND)	フィルム検知接片(GND)	1
2082-3413-01	FILM DETECT CONTACT SPACER	フィルム検知接片スペーサー	1
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	1
9748-1740-07	SCREW	ねじ	2
9761-1740-07	SCREW	ねじ	4
9762-1740-07	SCREW	ねじ	1

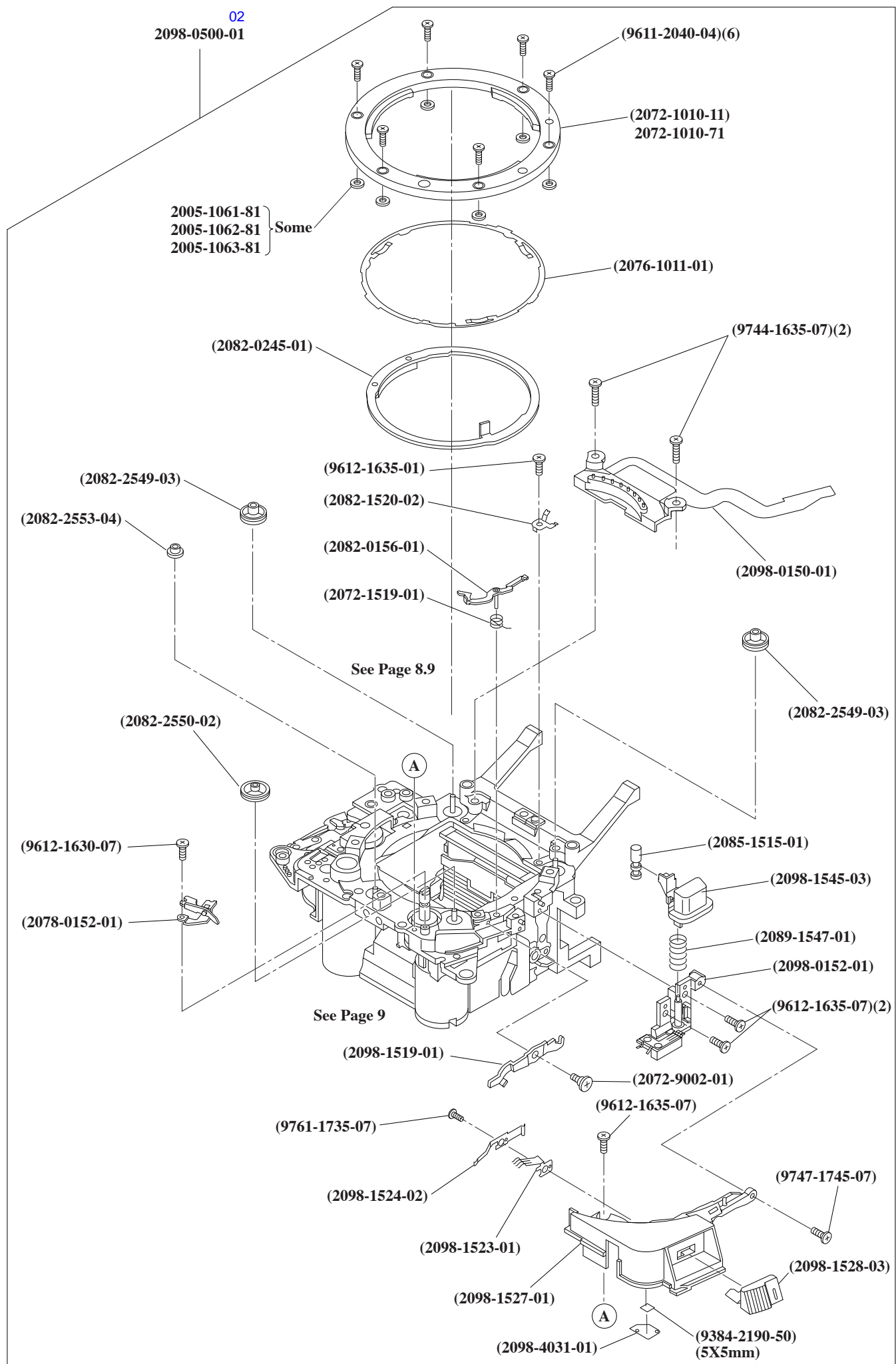


PART NO.	PART NAME		QTY.
2098-0104-01	TRIPOD BASE ASSY	三脚台板セット	1
2098-0142-01	REMOTE-CONTROL TERMINAL ASSY	リモートホルダーセット	1
2098-0183-01	DX-CONTACT HOLDER ASSY	CAS接片ホルダーセット	1
(2089-0181-01)	DX CONTACT	CAS接片	1
(2082-1083-04)	DX CONTACT HOLDER	CAS接片ホルダー	1
2098-1011-02	FILM LEADER INDEX	ローディング指標	1
2098-1012-01	SHEET	シート	1
2098-1051-02	BACK-COVER HINGE	裏蓋ヒンジ	1
2098-1055-01	GROUND PLATE	ラグ板	1
2085-1087-01	SIDE SP	サイドSP	1
2098-1165-01	BACK-COVER DUSTPROOF SHEET-B	裏蓋防塵シートB	1
2098-3401-01	FILM ROLLER	フィルム押えローラー	1
2089-3402-03	ROLLER HOLDER	ローラーホルダー	1
2098-3403-01	FILM ROLLER RUBBER	フィルム押えローラーゴム	1
2098-4004-01	FPC-D	Dフレキ	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9384-2791-25	FILM TAPE (PER ROLL BROWN)	フィルムテープB	1
9747-1740-07	SCREW	ねじ	2
9747-1745-07	SCREW	ねじ	2
9747-1745-15	SCREW	ねじ	3
9761-2045-01	SCREW	ねじ	1
9762-2050-01	SCREW	ねじ	2

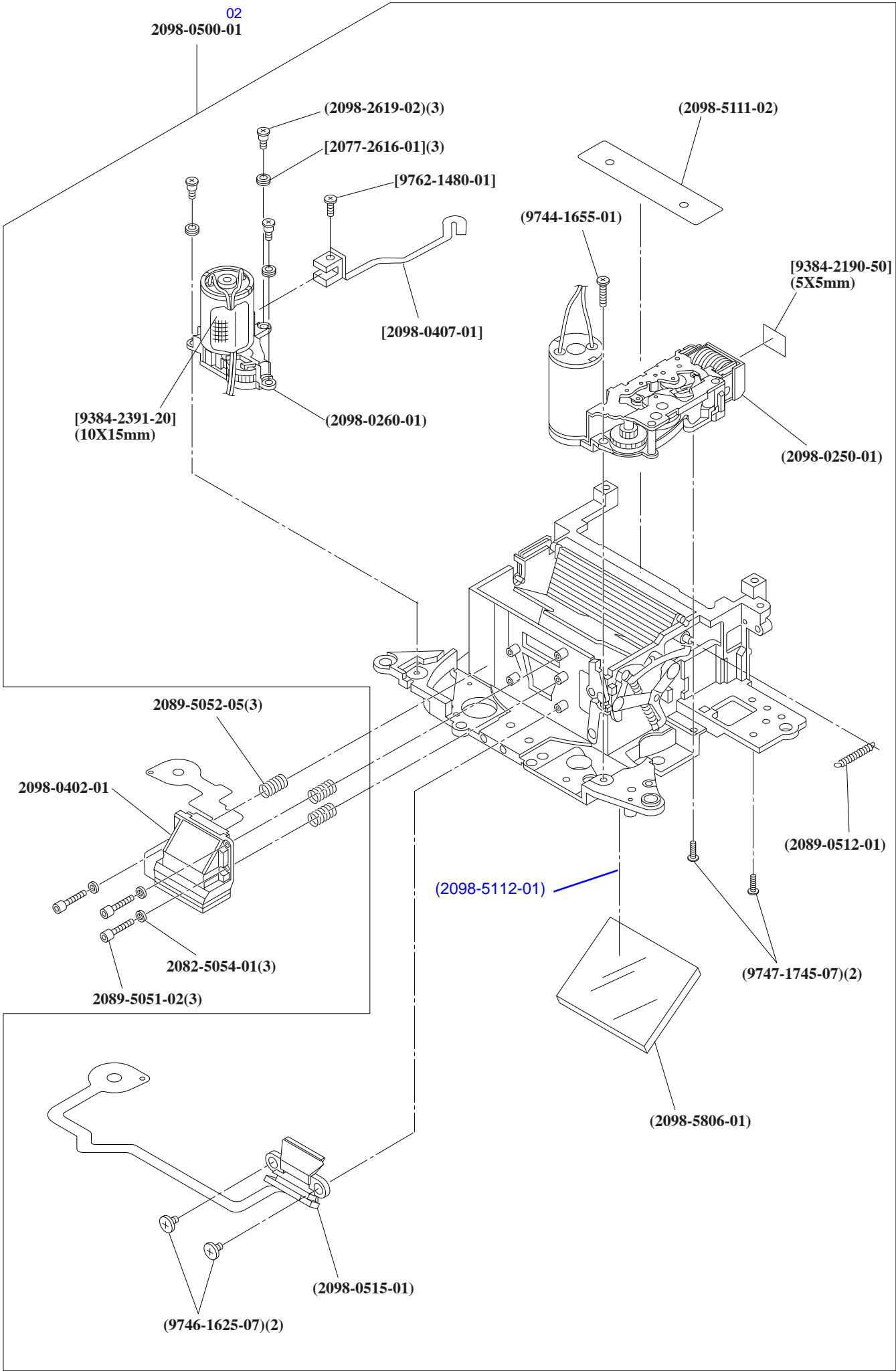
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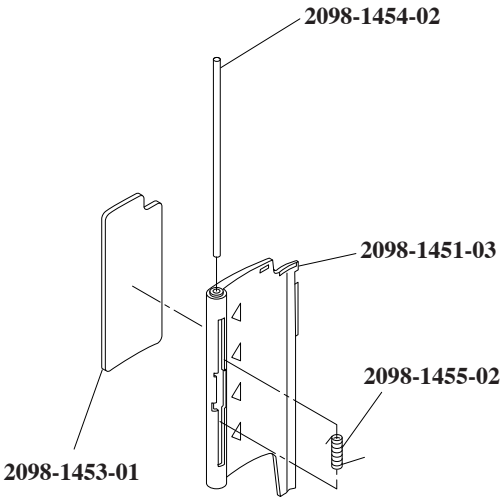
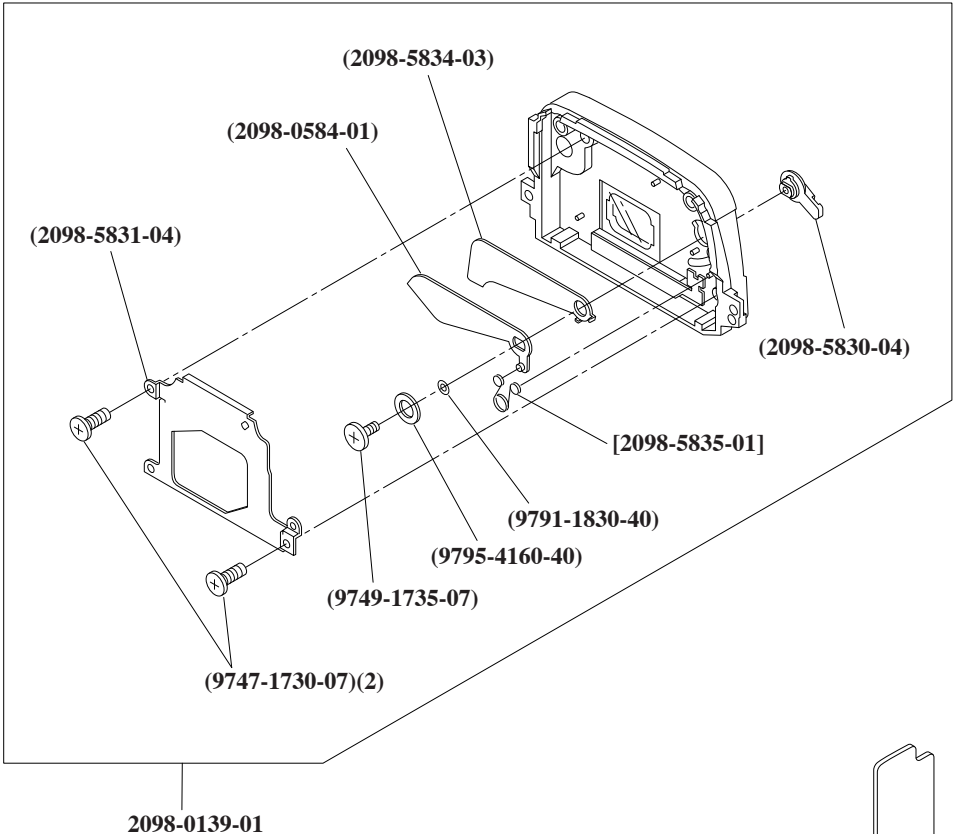
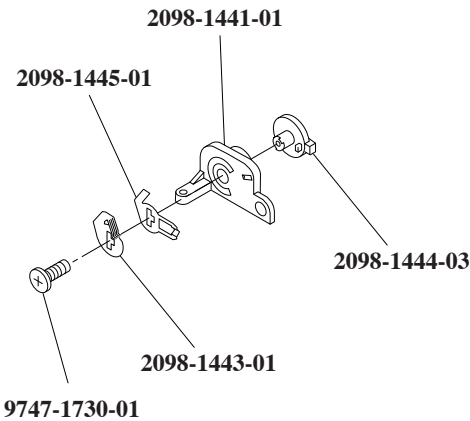
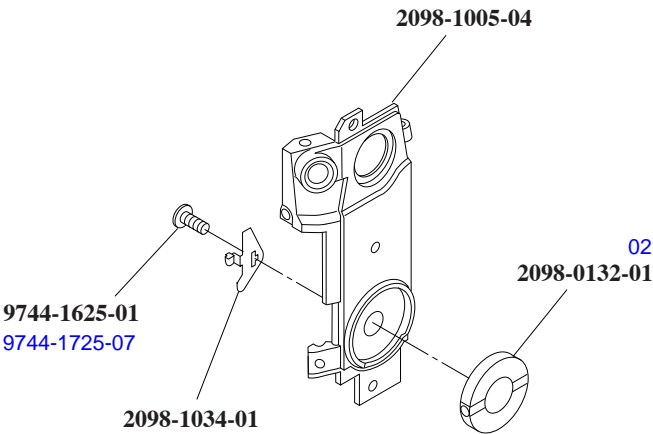
PART NO.	PART NAME		QTY.
*2098-0580-01	PENTA-PRISM ASSY	ペンタブロックセット	1
2098-0580-02	PENTA-PRISM ASSY	ペンタブロックセット	1
(2098-0412-01)	FPC-L ASSY	Lフレキシセット	1
(2098-0414-01)	FPC-N ASSY	Nフレキシセット	1
(2098-0537-01)	EYEPIECE LENS ASSY	接眼レンズセット	1
(2098-0539-01)	DIOPTER-ADJUST CAM ASSY	視度調駆動カムセット	1
(2098-0585-01)	EYEPIECE LENS HOLDER ASSY	接眼レンズホルダーセット	1
(2098-4017-01)	FPC-Q	Qフレキ	1
(2098-4206-01)	LCD2	LCD2	1
(2098-4208-01)	CONNECTOR RUBBER-A	IFゴムコネクターA	1
(2098-5003-01)	LIGHT SHIELD SHEET-A	接眼レンズホルダー遮光シートA	1
(2098-5005-04)	FOCUSING SCREEN HOLDER	焦点板ホルダー	1
(2098-5020-03)	SPC1 HOLDER	SPC1押え	1
(2098-5031-03)	FOCUSING SCREEN DETECT CONTACT-A	焦点板検知接片A	1
(2098-5032-01)	FOCUSING SCREEN DETECT CONTACT-B	焦点板検知接片B	1
(2098-5033-01)	FOCUSING SCREEN DETECT CONTACT SPACER	焦点板検知接片間隔板	1
(2098-5035-03)	DIOPTER-ADJUST CLICK	視度調クリック板	1
(2098-5036-01)	DIOPTER-ADJUST SP	視度調SP	1
(2098-5040-01)	EYEPIECE LIGHT SHIELD PLATE	接眼遮光板	1
(2081-5042-01)	DIOPTER-ADJUST SHAFT-A	視度調軸A	1
(2098-5043-01)	DIOPTER-ADJUST SHAFT-B	視度調軸B	1
(2098-5044-01)	DIOPTER-ADJUST CAM HOLDER	視度調駆動カム軸受け	1
(2098-5158-03)	MAIN MIRROR CUSHION	主ミラークッション	2
(2098-5805-04)	FOCUSING SCREEN	焦点板	1
(2098-5809-02)	SPC1 LENS	SPC1レンズ	1
(2098-5816-03)	CONNECTOR RUBBER PRESSURE-A	IFゴムコネクター押え板A	1
(9384-2290-90)	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	1
(9747-1730-07)	SCREW	ねじ	1
(9747-1740-07)	SCREW	ねじ	1
(9747-1750-07)	SCREW	ねじ	2
(9761-1740-07)	SCREW	ねじ	2
(9761-1745-07)	SCREW	ねじ	2
2098-5070-01	FOCUS AREA LED STABILIZER	投光位置固定板	1
*2098-5073-82	PENTA SUB PLATE-A	ペンタ押え補強板A	2
2098-5073-01	PENTA SUB PLATE-A	ペンタ押え補強板A	1
*2098-5074-82	PENTA SUB PLATE-B	ペンタ押え補強板B	2
2098-5074-01	PENTA SUB PLATE-B	ペンタ押え補強板B	1
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW	ポリエステルテープ	1
*9612-1670-07	SCREW	ねじ	2 0 1
*9612-1680-07	SCREW	ねじ	1 2
9744-1630-07	SCREW	ねじ	2
9745-1670-07	SCREW	ねじ	1
9790-1735-50	WASHER	ワッシャ	} 0~3
9791-1735-40	WASHER	ワッシャ	
9792-1735-20	WASHER	ワッシャ	
9793-1735-50	WASHER	ワッシャ	
9794-1735-40	WASHER	ワッシャ	



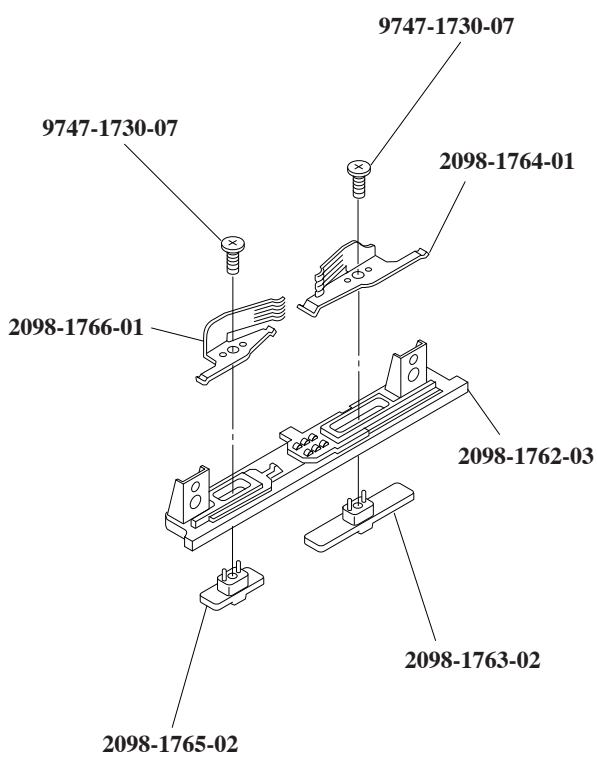
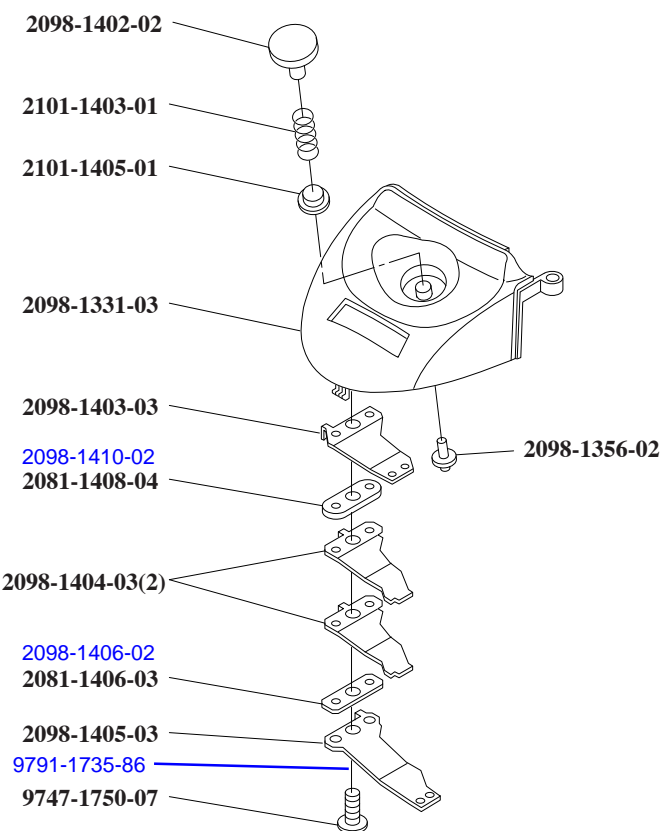
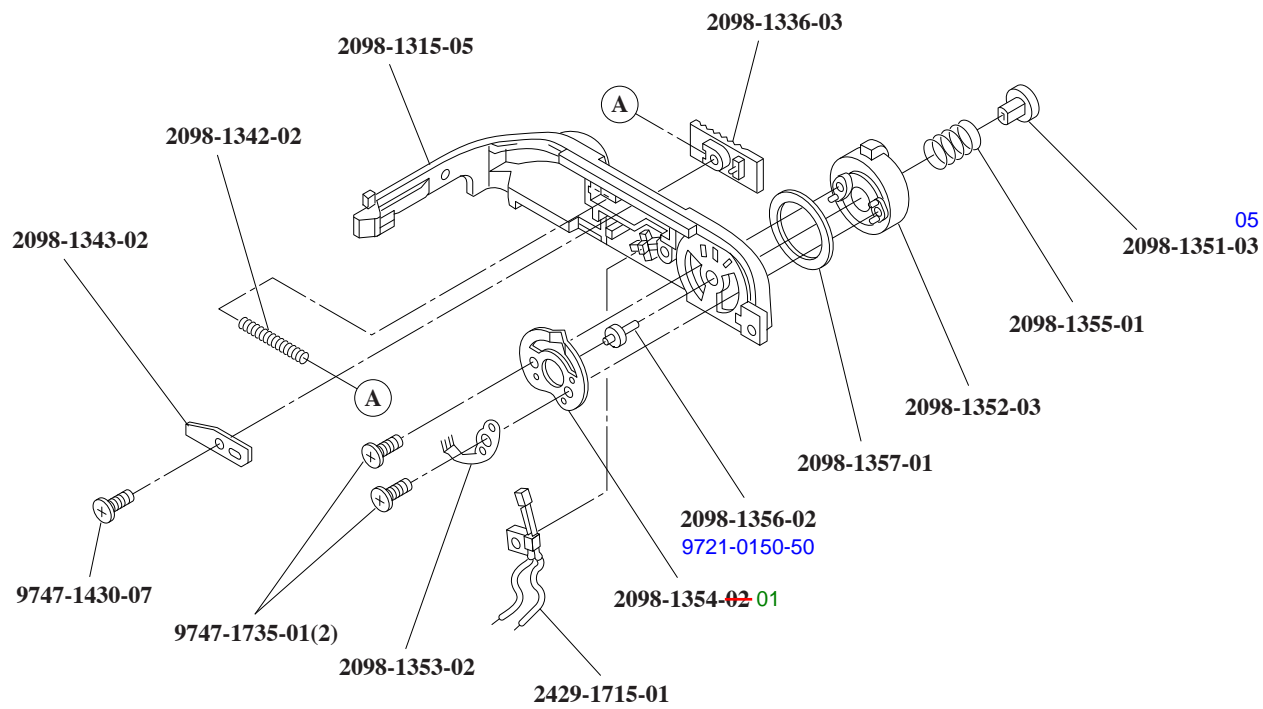
PART NO.	PART NAME		QTY.
*2098-0500-01	MIRROR BOX ASSY	ミラーボックスセット	1
2098-0500-02	MIRROR BOX ASSY	ミラーボックスセット	1
(2098-0150-01)	BL CONTACT HOLDER ASSY	BL接点ホルダーセット	1
(2078-0152-01)	COUPLER LEVER SET	カプラーレバーセット	1
(2098-0152-01)	LENS-RELEASE BASE ASSY	レンズロック台板セット	1
(2082-0156-01)	LENS LOCK LEVER SET	保持レバーセット	1
(2082-0245-01)	APERTURE RING SET	絞りリングセット	1
(2072-1010-11)	BAYONET LENS MOUNT	マウント	1
(2076-1011-01)	BAYONET SP	リングSP	1
(2085-1515-01)	LENS LOCK PIN	レンズロックピン	1
(2072-1519-01)	LENS LOCK LEVER SP	保持レバーSP	1
(2098-1519-01)	CONNECT LEVER	連動レバー	1
(2082-1520-02)	GROUND CONTACT	座板アース接片	1
(2098-1523-01)	FOCUS-MODE SWITCH CONTACT	AF/Mレバークリック接片	1
(2098-1524-02)	FOCUS-MODE SWITCH CLICK	AF/Mレバークリック板	1
(2098-1527-01)	FOCUS-MODE SWITCH COVER	AF/Mカバー	1
(2098-1528-03)	FOCUS-MODE SWITCH	AF/Mレバー	1
(2098-1545-03)	LENS RELEASE	レンズロック釦	1
(2089-1547-01)	LENS-RELEASE SP	レンズロックSP	1
(2082-2549-03)	RING ROLLER-A	リングローラーA	2
(2082-2550-02)	RING ROLLER-B	リングローラーB	1
(2082-2553-04)	RING ROLLER-C	リングローラーC	1
(2098-4031-01)	FPC-U	Uフレキ	1
(2072-9002-01)	SCREW	ねじ	1
(9384-2190-50)	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
(9611-2040-04)	SCREW	ねじ	6
(9612-1630-07)	SCREW	ねじ	1
(9612-1635-01)	SCREW	ねじ	1
(9612-1635-07)	SCREW	ねじ	3
(9744-1635-07)	SCREW	ねじ	2
(9747-1745-07)	SCREW	ねじ	1
(9761-1735-07)	SCREW	ねじ	1
2072-1010-71	BAYONET LENS MOUNT	マウント	1
2005-1061-81	ADJUSTMENT WASHER-A (T=0.02)	調整ワッシャA	} Some
2005-1062-81	ADJUSTMENT WASHER-B (T=0.05)	調整ワッシャB	
2005-1063-81	ADJUSTMENT WASHER-C (T=0.1)	調整ワッシャC	



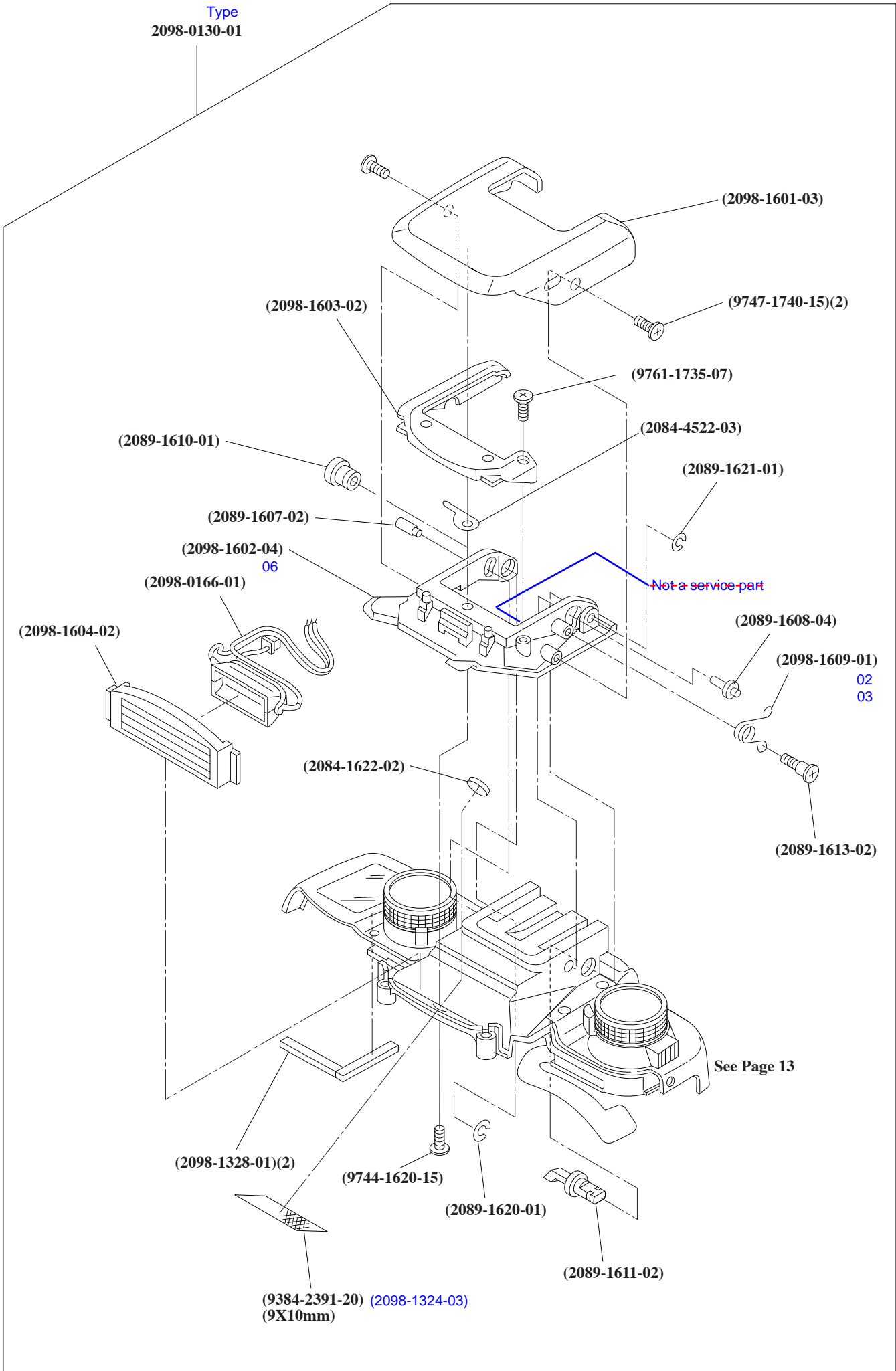
PART NO.	PART NAME		QTY.
2098-0402-01	FPC-B ASSY	Bフレキセット	1
*2098-0500-01	MIRROR BOX ASSY	ミラーボックスセット	1
2098-0500-02	MIRROR BOX ASSY	ミラーボックスセット	1
(2098-0250-01)	APERTURE BASEPLATE ASSY	絞り台板セット	1
[9384-2190-50]	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
(2098-0260-01)	AF-MOTOR BASE ASSY	AFモーター台板セット	1
[2098-0407-01]	FPC-G ASSY	Gフレキセット	1
[2077-2616-01]	COLLAR	AFサイレントカラー	3
[9384-2391-20]	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
[9762-1480-01]	SCREW	ねじ	1
(2089-0512-01)	MIRROR DOWN SP UNIT	主ミラーダウンSPセット	1
(2098-0515-01)	SPC2 LENS HOLDER ASSY	SPC2レンズホルダーセット	1
(2098-2619-02)	SCREW	ねじ	3
(2098-5111-02)	LIGHT SHIELD SHEET	遮光シート	1
(2098-5112-01)	MASK SHEET	マスク板	1
(2098-5806-01)	MAIN MIRROR	主ミラー	1
(9744-1655-01)	SCREW	ねじ	1
(9746-1625-07)	SCREW	ねじ	2
(9747-1745-07)	SCREW	ねじ	2
2089-5051-02	SCREW	ねじ	3
2089-5052-05	AF ADJUSTMENT SP	AF調整SP	3
2082-5054-01	WASHER	ワッシャ	3



PART NO.	PART NAME		QTY.
*2098-0132-01	BACK-COVER RELEASE ASSY	裏蓋ロックつまみセット	1
2098-0132-02	BACK-COVER RELEASE ASSY	裏蓋ロックつまみセット	1
2098-0139-01	EYEPIECE ASSY	接眼枠セット	1
(2098-0584-01)	EYEPIECE-SHUTTER-A ASSY	アイピースシャッターAセット	1
[2098-5835-01]	EYEPIECE-SHUTTER SP	アイピースシャッター駆動SP	1
(2098-5830-04)	EYEPIECE-SHUTTER LEVER	アイピースシャッターレバー	1
(2098-5831-04)	EYEPIECE-SHUTTER HOLDER	アイピースシャッター押え板	1
(2098-5834-03)	EYEPIECE-SHUTTER-B	アイピースシャッターB	1
(9747-1730-07)	SCREW	ねじ	2
(9749-1735-07)	SCREW	ねじ	1
(9791-1830-40)	WASHER	ワッシャ	1
(9795-4160-40)	WASHER	ワッシャ	1
2098-1005-04	SIDE COVER-B	サイドカバーB	1
2098-1034-01	BACK-COVER RELEASE LOCK PLATE	裏蓋ロックプレート	1
2098-1441-01	MAIN SWITCH HOLDER	メインSWホルダー	1
2098-1443-01	MAIN SWITCH CONTACT	メインSW接片	1
2098-1444-03	MAIN SWITCH	メインSWレバー	1
2098-1445-01	MAIN SWITCH CLICK	メインSWクリック板	1
2098-1451-03	CONTROL-PANEL DOOR	ウイングカバー	1
2098-1453-01	CONTROL-PANEL DOOR SHEET	ウイングカバー貼皮	1
2098-1454-02	CONTROL-PANEL DOOR SHAFT	ウイングカバーヒンジ軸	1
2098-1455-02	CONTROL-PANEL DOOR SP	ウイングカバーSP	1
9744-1625-01	SCREW	ねじ	1
9747-1725-07	SCREW	ねじ	1
9747-1730-01	SCREW	ねじ	1

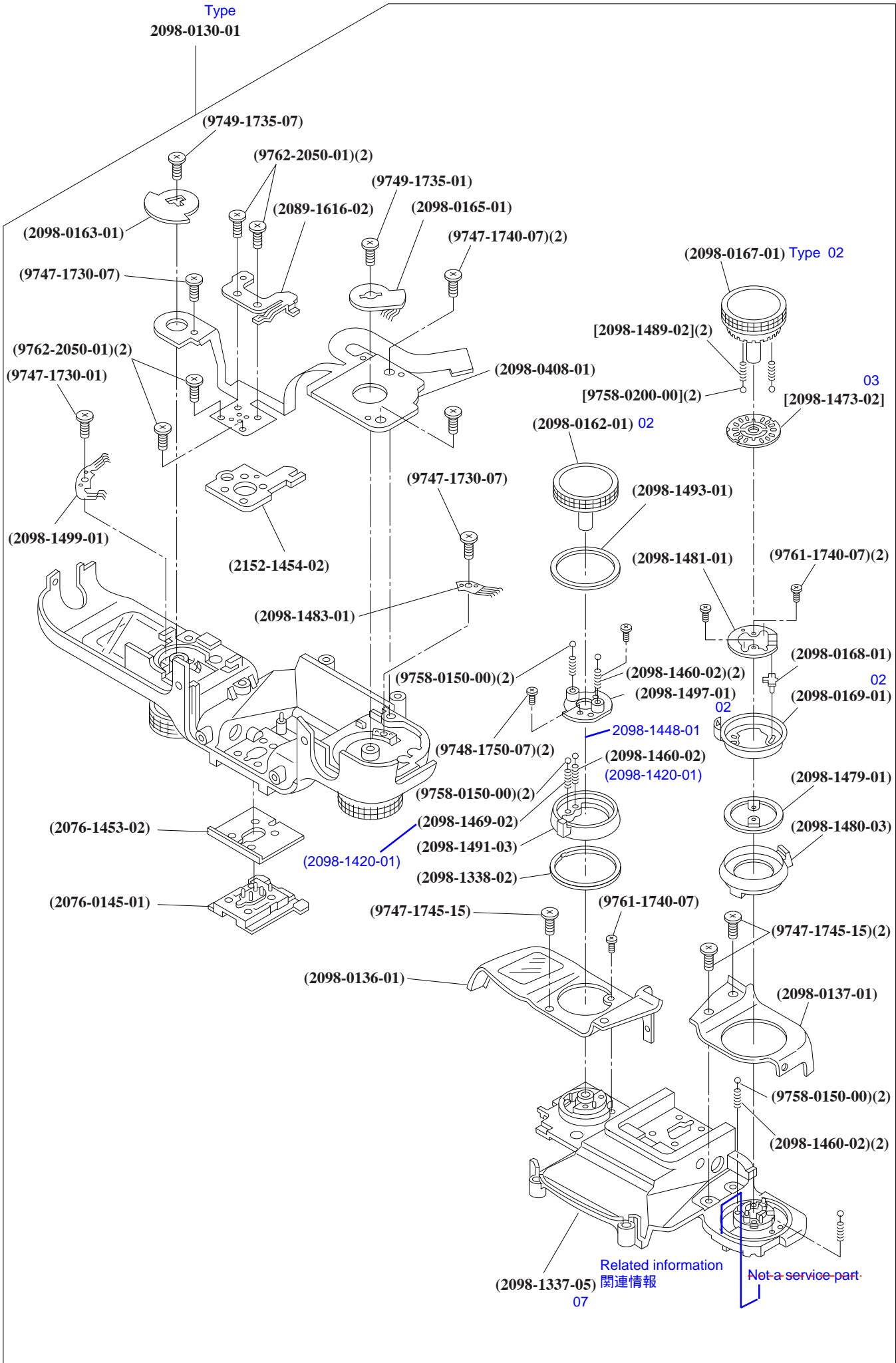


PART NO.	PART NAME		QTY.
2098-1315-05	REAR DIAL COVER	後ダイヤルカバー	1
2098-1331-03	SHUTTER BUTTON COVER	レリーズカバー	1
2098-1336-03	DATA-PANEL ILLUMINATOR LEVER	バックライトレバー	1
2098-1342-02	ILLUMINATOR LEVER SP	バックライトSP	1
2098-1343-02	ILLUMINATOR LEVER PRESSURE	バックライトレバー押え板	1
*2098-1351-03	AE-LOCK BUTTON	AEL釦	1
2098-1351-05	AE-LOCK BUTTON	AEL釦	1
2098-1352-03	METERING-MODE SWITCH	測光モード切換えレバー	1
2098-1353-02	METERING-MODE CONTACT	測光モード接片	1
2098-1354-01	METERING-MODE CLICK	測光モードクリック板	1
2098-1355-01	AE-LOCK BUTTON SP	AEL釦SP	1
*2098-1356-02	AF BUTTON INSULATOR	絶縁キャップ	2 1
2098-1357-01	METERING-MODE SWITCH SPACER	測光モード切換えレバー間隔板	1
2098-1402-02	SHUTTER-RELEASE BUTTON	レリーズ釦	1
2098-1403-03	SHUTTER BUTTON CONTACT-A	レリーズSW接片A	1
2101-1403-01	RELEASE BUTTON SP	レリーズ釦SP	1
2098-1404-03	SHUTTER BUTTON CONTACT-B	レリーズSW接片B	2
2098-1405-03	SHUTTER BUTTON CONTACT-C	レリーズSW接片C	1
2101-1405-01	SEALING CAP	防滴キャップ	1
*2081-1406-03	SHUTTER BUTTON CONTACT SPACER	レリーズSW接片スペーサー	1
2098-1406-02	SHUTTER BUTTON CONTACT SPACER	レリーズSW接片スペーサー	1
*2081-1408-04	SHUTTER BUTTON CONTACT INSULATOR	レリーズSW接片絶縁板	1
2098-1410-02	SHUTTER BUTTON CONTACT INSULATOR	レリーズSW接片絶縁板	1
2429-1715-01	PANORAMA SWITCH (PANORAMA)	パノラマSW	1
2098-1762-03	BACK BOTTOM COVER	背面つまみカバー	1
2098-1763-02	FLASH-MODE SWITCH	フラッシュモード切換えレバー	1
2098-1764-01	FLASH-MODE CONTACT	フラッシュモード切換えレバー接片	1
2098-1765-02	EYE-START SWITCH	アイスタート禁止レバー	1
2098-1766-01	EYE-START SWITCH CONTACT	アイスタート禁止レバー接片	1
9721-0150-50	E-RING	Eリング	1
9747-1430-07	SCREW	ねじ	1
9747-1730-07	SCREW	ねじ	2
9747-1735-01	SCREW	ねじ	2
9747-1750-07	SCREW	ねじ	1
9791-1735-86	WASHER	ワッシャ	1



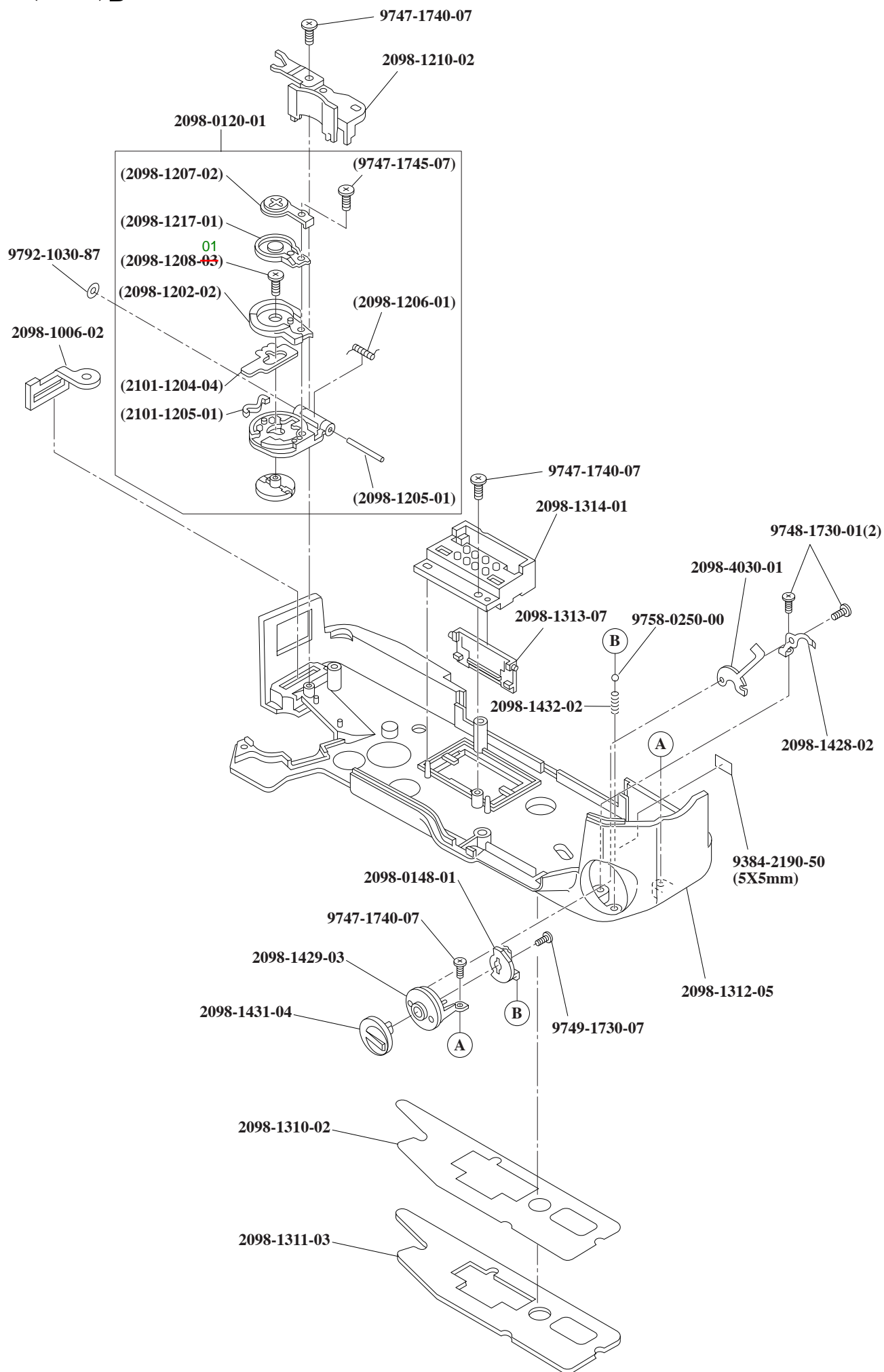
PART NO.	PART NAME		QTY.
2098-0130-01	TOP COVER ASSY	上カバーセット	1
(2098-0166-01)	FLASH ASSY	発光部セット	1
(2098-1324-03)	FINDER LIGHT SHIELD TAPE-B	ファインダー遮光テープB	1
(2098-1328-01)	LCD1 DUSTPROOF SHEET	LCD1防塵シート	2
(2098-1601-03)	FLASH COVER (TOP)	発光部ケース(上)	1
*(2098-1602-04)	FLASH COVER (BOTTOM)	発光部ケース(下)	1
(2098-1602-06)	FLASH COVER (BOTTOM)	発光部ケース(下)	1
(2098-1603-02)	FLASH COVER (MIDDLE)	発光部内カバー	1
(2098-1604-02)	FLASH PANEL	発光パネル	1
(2089-1607-02)	SCREW	ねじ	1
(2089-1608-04)	STOPPER PIN (L)	ストッパーピン(L)	1
*(2098-1609-01)	FLASH SP	フラッシュアップSP	1
*(2098-1609-02)	FLASH SP	フラッシュアップSP	1
(2098-1609-03)	FLASH SP	フラッシュアップSP	1
(2089-1610-01)	FLASH SHAFT (L)	回転軸(L)	1
(2089-1611-02)	FLASH SHAFT (R)	回転軸(R)	1
(2089-1613-02)	SCREW	ねじ	1
(2089-1620-01)	C-RING	Cリング	1
(2089-1621-01)	C-RING	Cリング	1
(2084-1622-02)	COVER PLATE-A	F飾り板A	1
(2084-4522-03)	GROUND PLATE-B	ラグ板B	1
(9384-2391-20)	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
(9744-1620-15)	SCREW	ねじ	1
(9747-1740-15)	SCREW	ねじ	2
(9761-1735-07)	SCREW	ねじ	1

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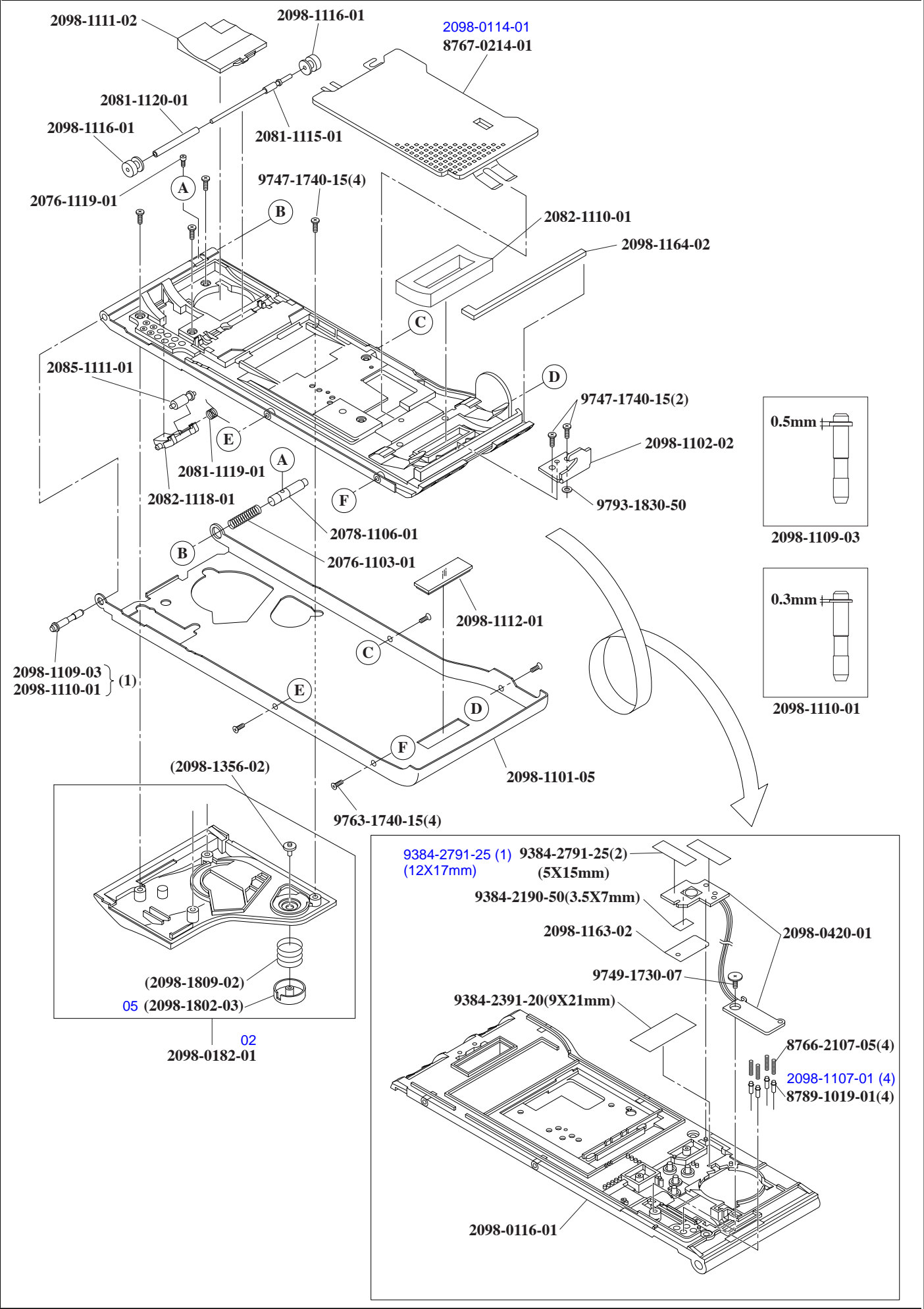


PART NO.	PART NAME		QTY.
2098-0130-01	TOP COVER ASSY	上カバーセット	1
(2098-0136-01)	TOP COVER ASSY-A	上カバーセットA	1
(2098-0137-01)	TOP COVER ASSY-B	上カバーセットB	1
(2076-0145-01)	ACC. SHOE SET	アクセサリシューセット	1
*(2098-0162-01)	EXPOSURE-MODE DIAL ASSY	露出モードダイヤルセット	1
(2098-0162-02)	EXPOSURE-MODE DIAL ASSY	露出モードダイヤルセット	1
(2098-0163-01)	MODE DIAL CONTACT ASSY	露出モードダイヤル接片セット	1
(2098-0165-01)	COMPENSATION DIAL CONTACT ASSY	露出補正ダイヤル接片セット	1
*(2098-0167-01)	EXPOSURE-COMPENSATION DIAL ASSY	露出補正ダイヤルセット	1
(2098-0167-02)	EXPOSURE-COMPENSATION DIAL ASSY	露出補正ダイヤルセット	1
*[2098-1473-02]	COMPENSATION CLICK	露出補正クリック板	1
[2098-1473-03]	COMPENSATION CLICK	露出補正クリック板	1
[2098-1489-02]	COMPENSATION CLICK SP	露出補正クリック板SP	2
[9758-0200-00]	STEEL BALL	スチールボール	2
(2098-0168-01)	COMPENSATION LOCK PIN ASSY	露出補正ロックピンセット	1
*(2098-0169-01)	EXPOSURE-COMPENSATION LOCK ASSY	露出補正ロックレバーセット	1
(2098-0169-02)	EXPOSURE-COMPENSATION LOCK ASSY	露出補正ロックレバーセット	1
(2098-0408-01)	FPC-H ASSY	Hフレキセット	1
*(2098-1337-05)	TOP INSULATION COVER	上絶縁カバー	1
(2098-1337-07)	TOP INSULATION COVER	上絶縁カバー	1
(2098-1338-02)	DRIVE DIAL BASE RING	ドライブモード飾りリング	1
(2098-1420-01)	DRIVE-MODE LEVER SP	ロックレバークリックSP	2
(2098-1448-01)	DRIVE-MODE CLICK PLATE	ドライブモードクリック板	1
(2076-1453-02)	SHOE BASE	シュー敷板	1
(2152-1454-02)	SHOE BASE	シュー取付け板	1
*(2098-1460-02)	DRIVE-MODE LEVER SP	ロックレバークリックSP	5 4
*(2098-1469-02)	MODE DIAL SP	ダイヤルクリックSP	1
(2098-1479-01)	FLASH DIAL PRESSURE	調光補正ダイヤル押え	1
(2098-1480-03)	FLASH-COMPENSATION DIAL	調光補正ダイヤル	1
(2098-1481-01)	COMPENSATION LOCK PRESSURE	露出補正ロックレバー押え板	1
(2098-1483-01)	FLASH DIAL CONTACT	調光補正ダイヤル接片	1
(2098-1491-03)	DRIVE-MODE LEVER	ドライブモードレバー	1
(2098-1493-01)	MODE DIAL BASE RING	露出モード飾りリング	1
*(2098-1497-01)	MODE DIAL BASE	露出モード台板	1
(2098-1497-02)	MODE DIAL BASE	露出モード台板	1
(2098-1499-01)	MODE DIAL CONTACT	露出モード接片	1
(2089-1616-02)	SFL CONTACT	SFL接片	1
(9747-1730-01)	SCREW	ねじ	1
(9747-1730-07)	SCREW	ねじ	2
(9747-1740-07)	SCREW	ねじ	2
(9747-1745-15)	SCREW	ねじ	3
(9748-1750-07)	SCREW	ねじ	2
(9749-1735-01)	SCREW	ねじ	1
(9749-1735-07)	SCREW	ねじ	1
(9758-0150-00)	STEEL BALL	スチールボール	6
(9761-1740-07)	SCREW	ねじ	3
(9762-2050-01)	SCREW	ねじ	4

14(2098)B



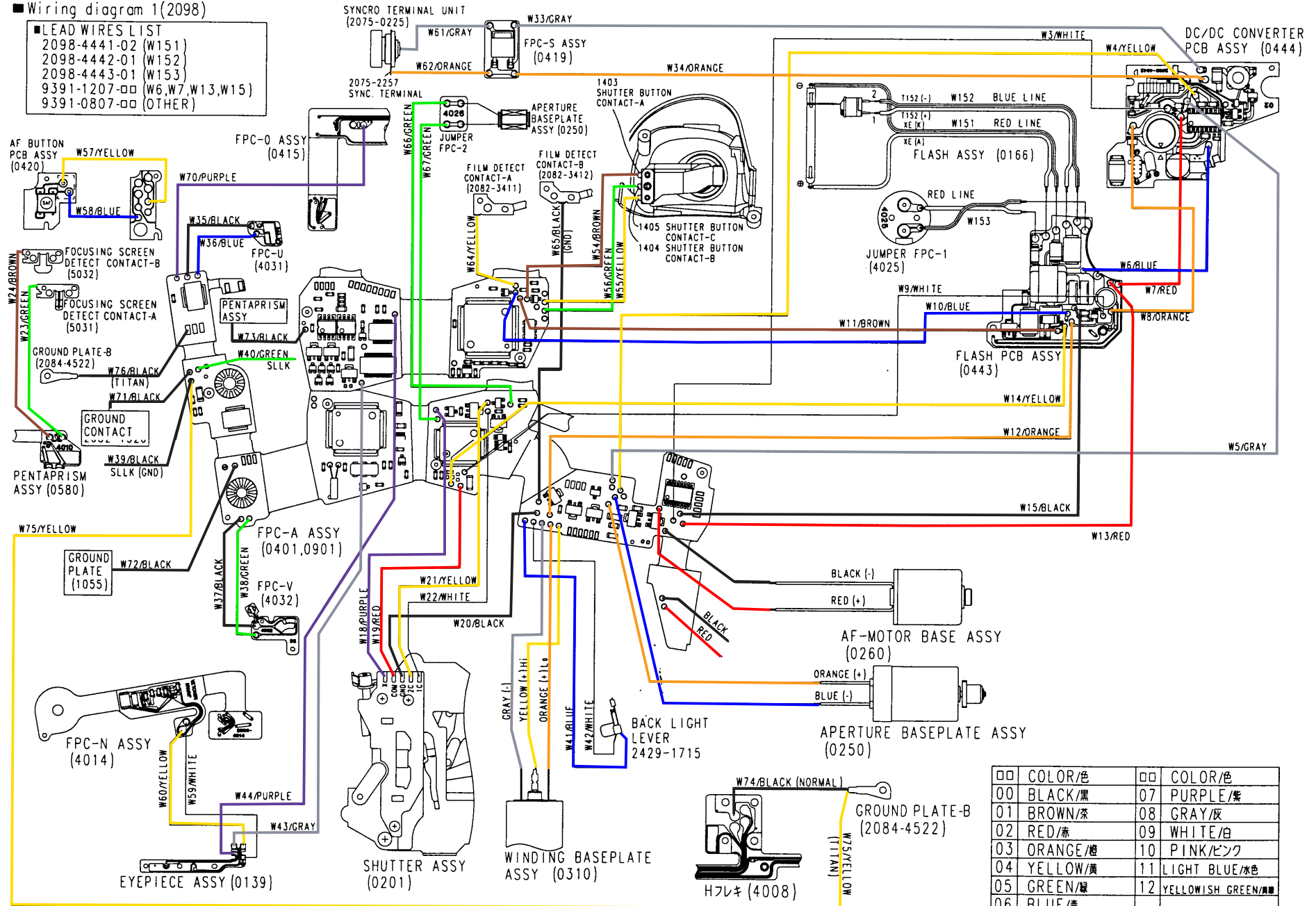
PART NO.	PART NAME		QTY.
2098-0120-01	BATTERY COVER ASSY	電池蓋セット	1
(2098-1202-02)	BATTERY COVER PLATE	電池蓋ロック押え板	1
(2101-1204-04)	BATTERY COVER RELEASE	電池蓋ロックレバー	1
(2098-1205-01)	BATTERY COVER SHAFT	電池蓋ヒンジ軸	1
(2101-1205-01)	BATTERY COVER CLICK	電池蓋クリック板	1
(2098-1206-01)	BATTERY COVER SP	電池蓋SP	1
(2098-1207-02)	BATTERY CONTACT (+)	電池接片(+)	1
(2098-1208-01)	SCREW	ねじ	1
(2098-1217-01)	BATTERY COVER INSULATOR	電池蓋絶縁板	1
(9747-1745-07)	SCREW	ねじ	1
2098-0148-01	AF-MODE DIAL CONTACT ASSY	AFモード切替え接片セット	1
2098-1006-02	GRIP STRAP EYELET	吊環	1
2098-1210-02	BACK-COVER HINGE PRESSURE	電池蓋ヒンジ押え	1
2098-1310-02	BOTTOM-COVER RUBBER TAPE	下カバーゴム貼り付けテープ	1
2098-1311-03	BOTTOM-COVER RUBBER	下カバーゴム	1
2098-1312-05	BOTTOM COVER	下カバー	1
2098-1313-07	VC-GRIP SIGNAL PIN COVER	縦位置グリップ信号ピン蓋	1
2098-1314-01	VC-GRIP SIGNAL PIN COVER HOLDER	縦位置グリップ信号ピン蓋押え	1
2098-1428-02	AF-MODE DIAL RESTRAIN	AFモード固定板	1
2098-1429-03	AF-MODE DIAL BASE	AFモード取付け板	1
2098-1431-04	AF-MODE DIAL	AFモード選択レバー	1
2098-1432-02	AF-MODE DIAL SP	AFモードクリックSP	1
2098-4030-01	FPC-T	Tフレキ	1
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9747-1740-07	SCREW	ねじ	3
9748-1730-01	SCREW	ねじ	2
9749-1730-07	SCREW	ねじ	1
9758-0250-00	STEEL BALL	スチールボール	1
9792-1030-87	WASHER	ワッシャ	1



PART NO.	PART NAME		QTY.
2098-0110-01	BACK COVER ASSY (COMPLETE)	裏蓋セット	1
2098-0114-01	PRESSURE PLATE ASSY	圧着板セット	1
2098-0116-01	BACK COVER ASSY	裏蓋カバー板セット	1
*2098-0182-01	AF BUTTON ASSY	AF釦セット	1
2098-0182-02	AF BUTTON ASSY	AF釦セット	1
(2098-1356-02)	AF BUTTON INSULATOR	絶縁キャップ	1
*(2098-1802-03)	AF BUTTON	AF釦	1
(2098-1802-05)	AF BUTTON	AF釦	1
(2098-1809-02)	AF BUTTON SP	AF釦SP	1
*8767-0214-01	PRESSURE PLATE	圧着板	1
2098-0420-01	AF BUTTON PCB ASSY	AF釦基板セット	1
*8789-1019-01	SIGNAL PIN	信号ピン	4
2098-1101-05	BACK COVER	裏蓋	1
2098-1102-02	BACK-COVER LOCK	裏蓋ロック爪	1
2076-1103-01	HINGE SPRING	ヒンジSP	1
2078-1106-01	HINGE AXIS-A	ヒンジ軸A	1
2098-1107-01	SIGNAL PIN	信号ピン	4
2098-1109-03	BACK-COVER HINGE SHAFT-A	裏蓋ヒンジ軸A	1
2082-1110-01	LIGHT SHIELD SPONGE	パト表示遮光片	1
2098-1110-01	BACK-COVER HINGE SHAFT-B	裏蓋ヒンジ軸B	1
2085-1111-01	BACK COVER ROLLER-2	裏蓋可動ローラー	1
2098-1111-02	BATTERY COVER (QD)	電池蓋 (QD)	1
2098-1112-01	FILM WINDOW	パト表示窓	1
2081-1115-01	BACK COVER ROLLER-A AXIS	裏蓋固定ローラー軸	1
2098-1116-01	BACK-COVER ROLLER	裏蓋固定ローラー	2
2082-1118-01	ROLLER PLATE	裏蓋可動板	1
2076-1119-01	SCREW	ねじ	1
2081-1119-01	ROLLER PLATE SP	裏蓋可動板バネ	1
2081-1120-01	BACK COVER ROLLER COLLAR	裏蓋固定ローラーカラー	1
2098-1163-02	BACK-COVER LIGHT SHIELD SHEET	裏蓋カバー板遮光シート	1
2098-1164-02	BACK-COVER DUSTPROOF SHEET-A	裏蓋防塵シートA	1
8766-2107-05	SIGNAL PIN SP	信号ピンSP	4
9384-2190-50	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9384-2391-20	ACETATE TAPE (PER ROLL)	アセテートクロステープ	1
*9384-2791-25	FILM TAPE-B	フィルムテープB	2...1
9747-1740-15	SCREW	ねじ	6
9749-1730-07	SCREW	ねじ	1
9763-1740-15	SCREW	ねじ	4
9793-1830-50	WASHER	ワッシャ	1

■ Wiring diagram 1 (2098)

■ LEAD WIRES LIST	
2098-4441-02	(W151)
2098-4442-01	(W152)
2098-4443-01	(W153)
9391-1207-□□	(W6, W7, W13, W15)
9391-0807-□□	(OTHER)

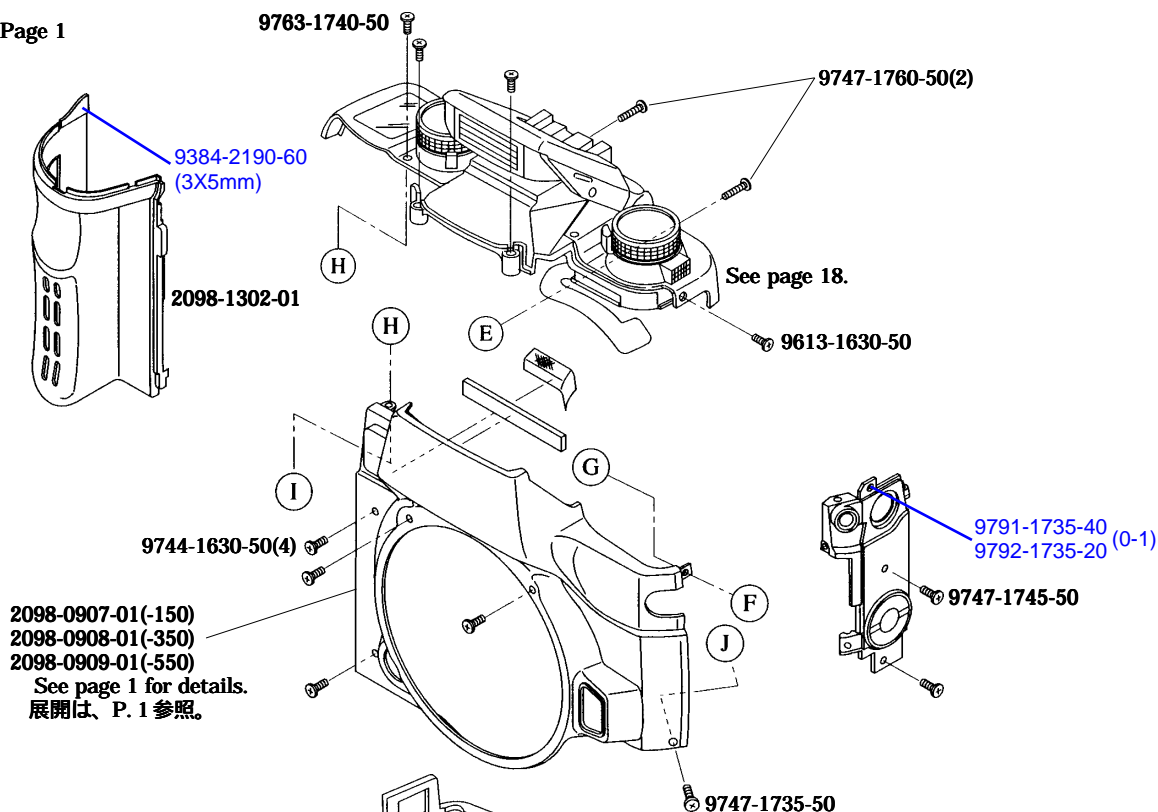


•Parts List pg. 17-19 shows exclusive parts for 2098-150, -350, -550.

See pg. 1-16 for parts common to 2098-100, -300, -500.

• パーツリストは2098-100, -300, -500 (P. 1 ~ P. 16)のパーツリストを参照してください。
但し、P. 17 ~ P. 19に2098-150, -350, -550の専用部品を記載します。

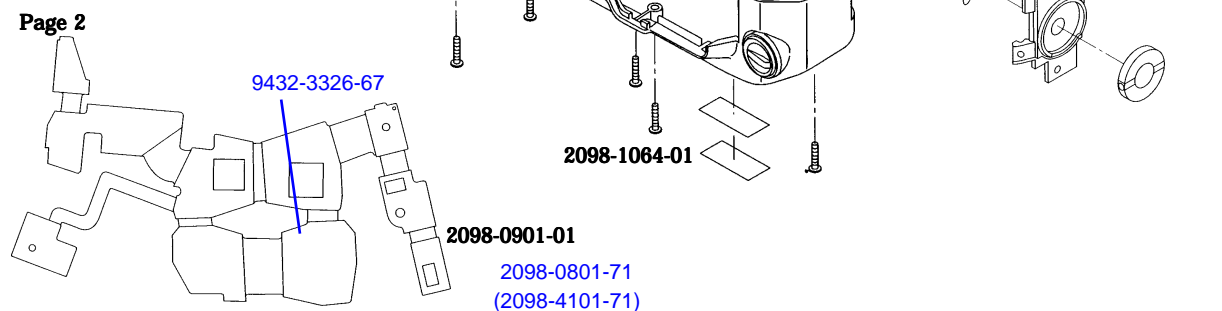
Page 1



See page 19.

Page 10

Page 2

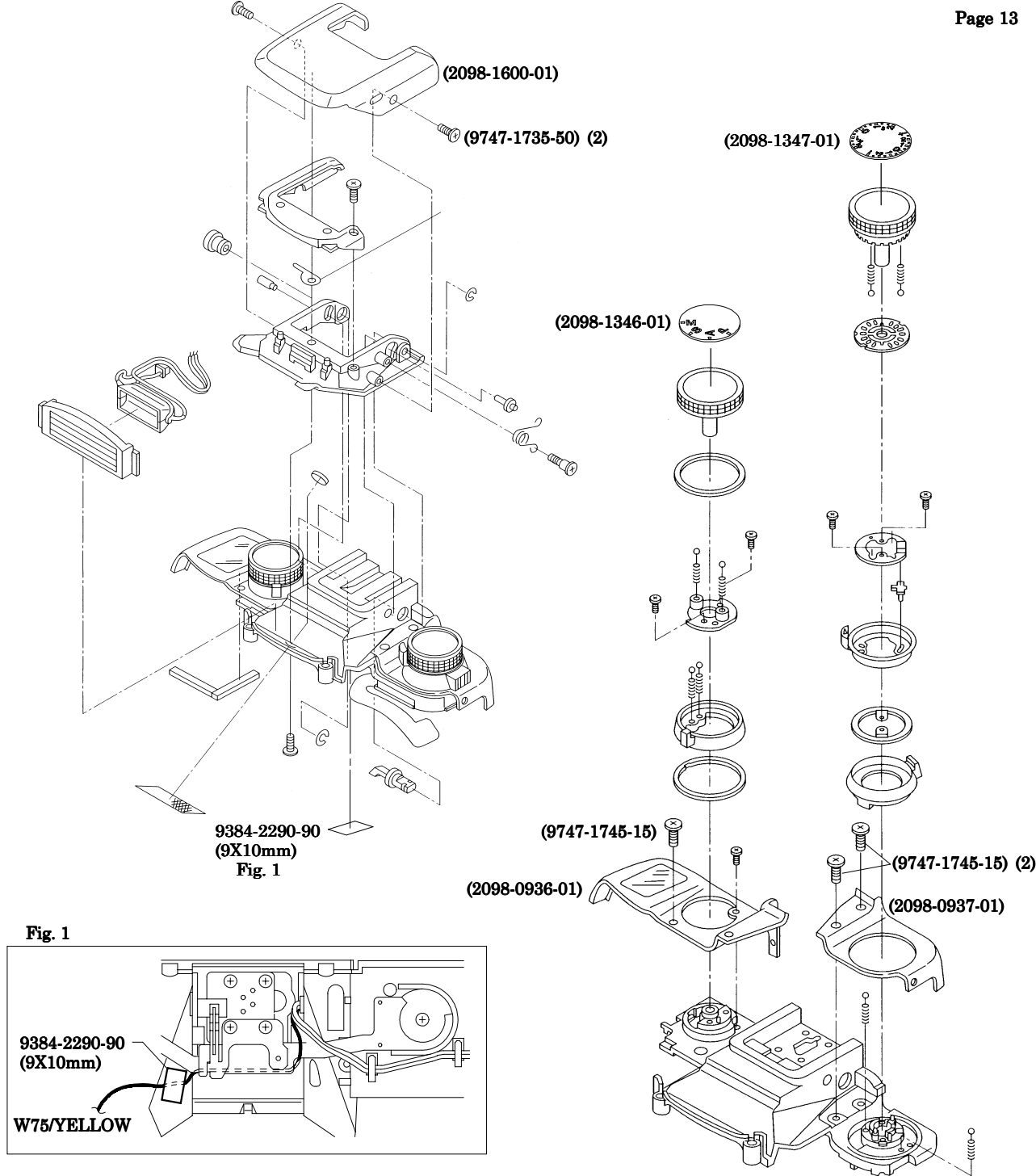


PART NO	PART NAME		QTY.
2098-0801-71 (2098-4101-71)	FPC-A ASSY(FOR CUSTOM) IC-1 (FOR CUSTOM)	Aフレキセット(SSM カスタム用) IC-1(SSMカスタム用)	1
2098-0901-01	FPC-A ASSY	Aフレキセット	1
2098-0907-01	FRONT COVER ASSY (-150)	前カバーセット	}
2098-0908-01	FRONT COVER ASSY (-350)	前カバーセット(-150)	
2098-0909-01	FRONT COVER ASSY (-550)	前カバーセット(-350)	
2098-1004-01	SIDE COVER-B (-150, -350, -550)	サイドカバー B (-550)	1
2098-1064-01	SERIAL NUMBER PLATE (-150, -350, -550)	ボディ No. 銘板(-150, -350, -550)	1
2098-1302-01	GRIP RUBBER (-150, -350, -550)	グリップゴム(-150, -350, -550)	1
9384-2190-60	DOUBLE-FACED TAPE (PER ROLL)	両面テープ	1
9432-3326-67	RESISTOR	抵抗	
9613-1630-50	SCREW	ねじ	1
9744-1630-50	SCREW	ねじ	4
9747-1735-50	SCREW	ねじ	1
9747-1745-50	SCREW	ねじ	1
9747-1760-50	SCREW	ねじ	2
9763-1740-50	SCREW	ねじ	1
9791-1735-40	WASHER	ワッシャ	}
9792-1735-20	WASHER	ワッシャ	

0-1



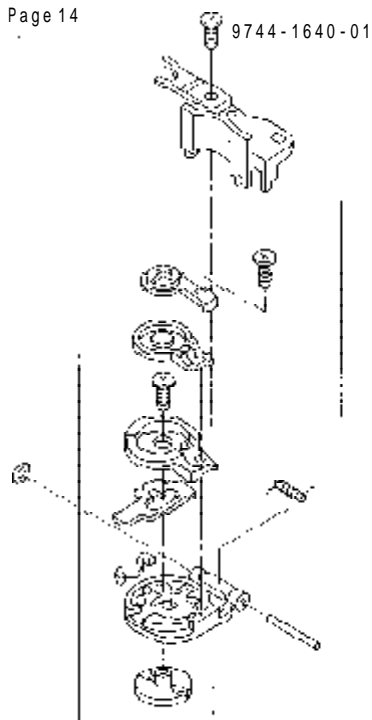
2098-0930-01
See page 12, 13 for details.
展開は、P. 12, 13 参照。



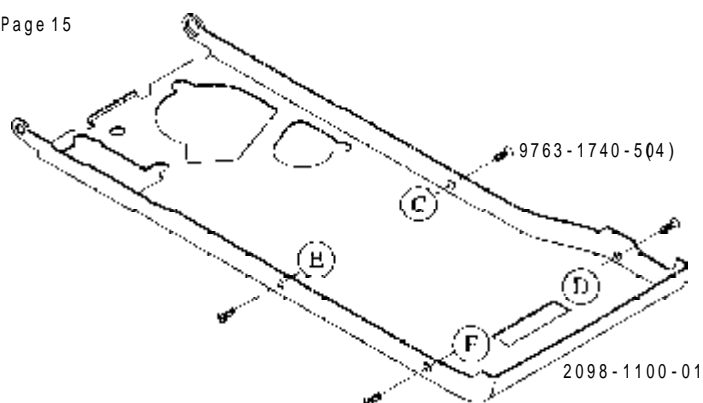
PART NO	PART NAME	QTY.
2098-0930-01	TOP COVER ASSY (-150, -350, -550)	1
(2098-0936-01)	TOP COVER ASSY-A (-150, -350, -550)	1
(2098-0937-01)	TOP COVER ASSY-B (-150, -350, -550)	1
(2098-1346-01)	EXPOSURE-MODE DIAL PLATE (-150, -350, -550)	1
(2098-1347-01)	EXPOSURE-COMPENSATION DIAL PLATE (-150, -350, -550)	1
(2098-1600-01)	FLASH COVER (TOP) (-150, -350, -550)	1
(9384-2290-90)	POLYESTER TAPE (PER ROLL/60M) YELLOW	1
(9747-1735-50)	SCREW	2
(9747-1745-15)	SCREW	3



Page 14



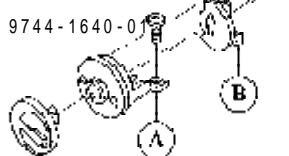
Page 15



2098-0875-01

Do not remove Bottom Cover Rubber
#2098-1311 because it is adhered with special agent.
特殊接着剤が塗布されているため、
下カバーゴム(2098-1311)は剥がさないこと。

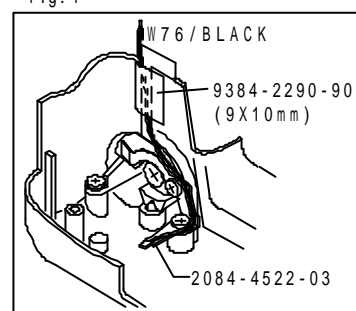
9744-1640-01



9384-2290-90
(9X10mm)
Fig. 1

9745-1630-01
2084-4522-03
9792-1740-40

Fig. 1



PART NO	PART NAME
2098-0875-01	BOTTOM COVER ASSY (-150, -350, -550)
2098-1100-01	BACK COVER (-150, -350, -550)
2084-4522-03	GROUND PLATE-B
9384-2290-90	POLYESTER TAPE (PER ROLL/60M) YELLOW
9744-1640-01	SCREW
9745-1630-07	SCREW
9763-1740-50	SCREW
9792-1740-40	WASHER

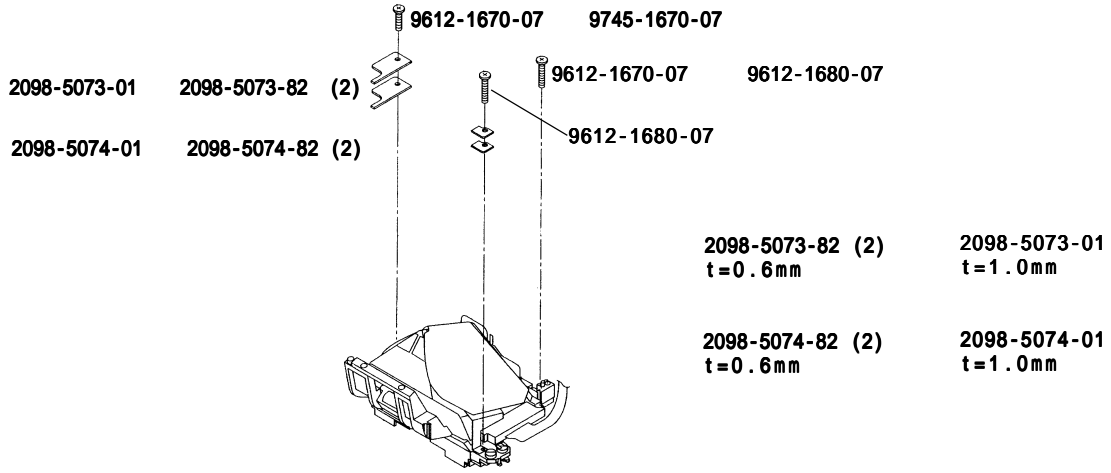
	QTY.
下カバーセット(-150, -350, -550)	1
裏蓋(-150, -350, -550)	1
ラグ板 B	1
ポリエステルテープ	1
ねじ	3
ねじ	1
ねじ	4
ワッシャ	1

(2098)A 1

管理No. REF No.	QS FA 2098-P001
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PARTS MODIFICATION LIST

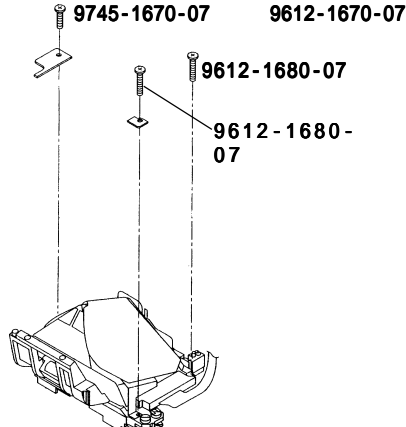
No. 001 Parts List P. 7 2098-482, 483

変更理由 REASON	生産都合 For efficient production				共通機種 COMMON MODEL	2098 Series
Previous	2098-5073-72	×	×		2098-5073-01	New
Previous	2098-5074-82	×	×		2098-5074-01	New
Previous	9612-1670-07	×	×		9745-1670-07	New
Previous	9612-1670-07	×	×		9612-1680-07	New
						
<ul style="list-style-type: none"> •Parts No. and quantity changed for plates. Screws changed to new type. •補助コード、員数および、ねじの変更。 						
Interchangeability as a set/セットでの互換性				Previous	→○	○←
						New

管理No. REF No.	QS FA 2098-P002
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PARTS MODIFICATION LIST

No. 002 Parts List P. 7 2098-553

変更理由 REASON	ファインダーバック値変動防止 To stabilize viewfinder back				共通機種 COMMON MODEL	2098 Series
Previous	9745-1670-07		×		9612-1670-07	New
						

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

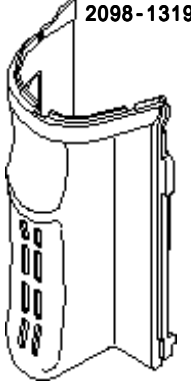
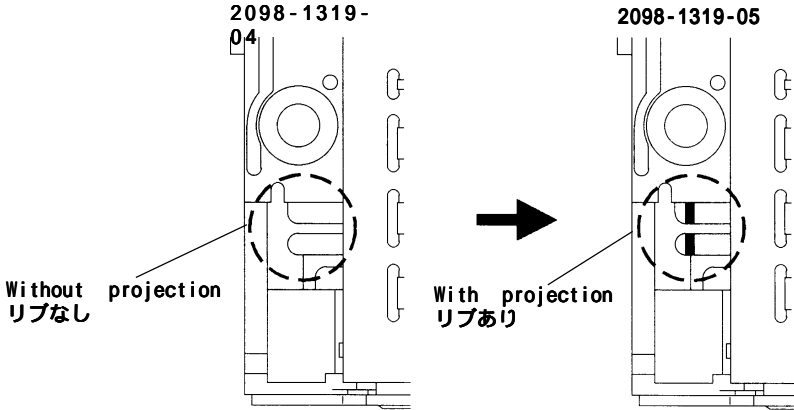
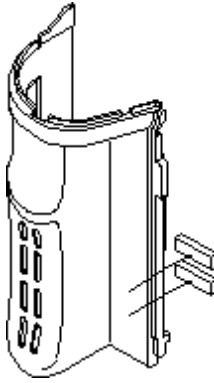
MINOLTA CO.,LTD.

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管理No.	QS FA 2098-P003
REF No.	

PARTS MODIFICATION LIST

No. 003 Parts List P. 1 2098-502

変更理由 REASON	生産都合	共通機種 COMMON MODEL		2098 Series	
	For efficient production				
Previous	2098-1319-04	x	x	2098-1319-05	New
<div><div><p>2098-1319</p></div><div><p>Without projection リブなし</p><p>2098-1319-04</p><p>With projection リブあり</p><p>2098-1319-05</p></div></div>					
Previous	2098-1317-81	-	-	-----	New
<div><p>2098-1317-81 (2) Discontinued/ 廃止</p></div>					
Interchangeability as a set/セットでの互換性		Previous	→○	○←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

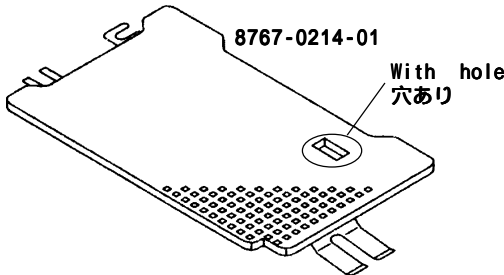
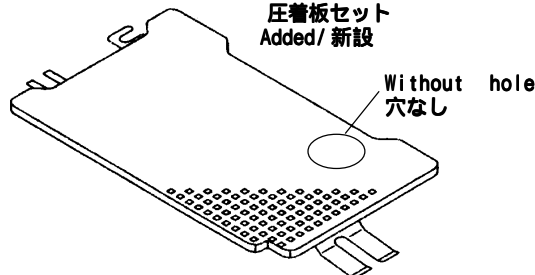
MINOLTA CO.,LTD.

(2098)A 3

管理No. REF No.	QS FA 2098-P004
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PARTS MODIFICATION LIST

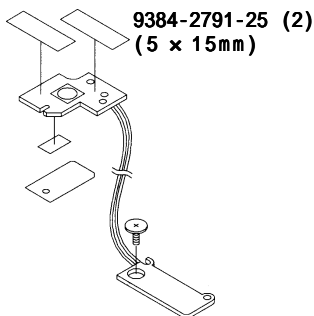
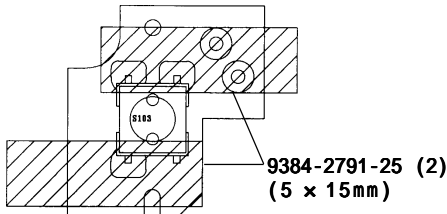
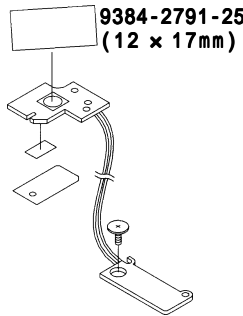
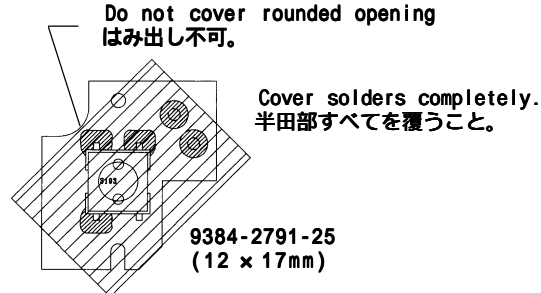
No. 004 Parts List P. 15 2098-514

変更理由 REASON	生産都合			共通機種 COMMON MODEL	2098 Series	
	For efficient production					
Previous	8767-0214-01		×	2098-0114-01	New	
<div><div><p>8767-0214-01 With hole 穴あり</p></div><div><p>2098-0114-01 PRESSURE PLATE ASSY 圧着板セット Added/ 新設 Without hole 穴なし</p></div></div>						

管理No. REF No.	QS FA 2098-P005
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PARTS MODIFICATION LIST

No. 005 Parts List P. 15 2098-520

変更理由 REASON	静電気対策			共通機種 COMMON MODEL	2098 Series	
	To prevent static electricity					
Previous	9384-2791-25	- -	- -	9384-2791-25	New	
<div><div><p>9384-2791-25 (2) (5 × 15mm)</p></div><div><p>9384-2791-25 (2) (5 × 15mm)</p></div><div><p>9384-2791-25 (12 × 17mm)</p></div><div><p>Do not cover rounded opening はみ出し不可。 Cover solders completely. 半田部すべてを覆うこと。 9384-2791-25 (12 × 17mm)</p></div></div>						
•Size and quantity changed. •寸法および員数変更。						

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

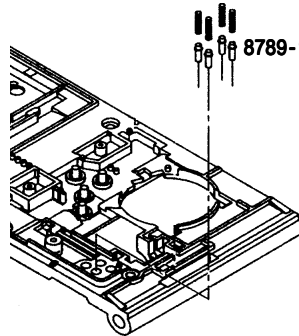
(2098)A 4

管理No. REF No.	QS FA 2098-P006
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PARTS MODIFICATION LIST

No. 006 Parts List P. 15 2098-530

変更理由 REASON	手配都合 For efficient parts supply			共通機種 COMMON MODEL	2098 Series
	Previous	8789-1019-01		2098-1107-01	New



8789-1019-01 (4)

2098-1107-01 (4)
SIGNAL PIN
信号ピン
Added/ 新設

- 8789-1019 is modified for exclusive use to #8789.
Use 2098-1107-01 for #2098 and #8790.
- 8789-1019は#8789用に部品更新されるため、#2098および#8790用とし8789-1019-01を2098-1107-01として部番のみ 変更する。

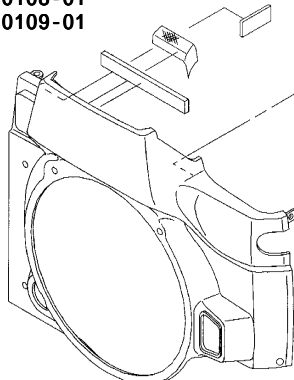
管理No. REF No.	QS FA 2098-P007
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PARTS MODIFICATION LIST

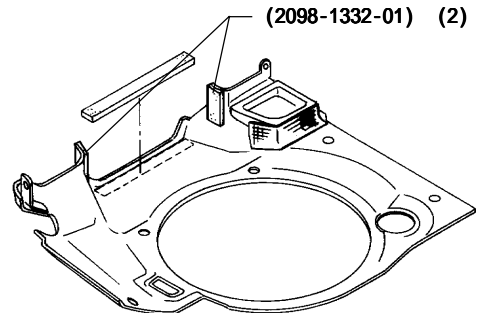
No. 007 Parts List P. 1 2098-532

変更理由 REASON	上カバーと前カバーの防塵および隙間の改善 To fill gap between Top and Front Cover			共通機種 COMMON MODEL	2098 Series
	Previous	-----	- -	(2098-1332-01)	New

2098-0107-01
2098-0108-01
2098-0109-01



(2098-1332-01) (2)
TOP COVER DUSTPROOF
SHEET
上カバー防塵シート
Added/ 新設



(2098-1332-01) (2)

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 5

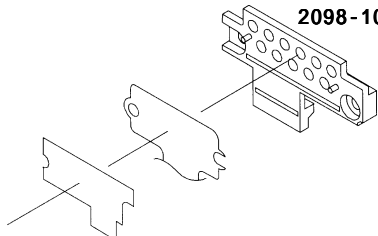
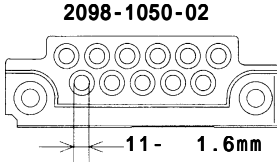
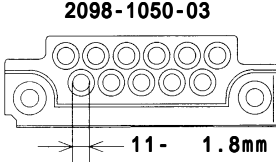
管理No. REF No.	QS FA 2098-P008
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PARTS MODIFICATION LIST

No. 008

Parts List P. 4

2098-534

変更理由 REASON	#8789信号ピン形状変更に伴う			共通機種 COMMON MODEL	2098 Series
	To suit with signal pin modification of #8789				
Previous	2098-1050-02		×	2098-1050-03	New
<div><div><p>2098-1050</p></div><div><p>2098-1050-02</p><p>11 - 1.6mm</p></div><div><p>2098-1050-03</p><p>11 - 1.8mm</p></div></div>					

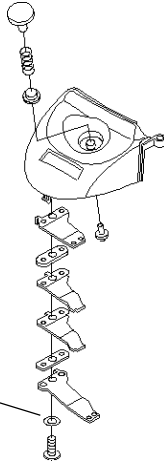
管理No. REF No.	QS FA 2098-P009
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PARTS MODIFICATION LIST

No. 009

Parts List P. 11

2098-537

変更理由 REASON	リリースSW接片ショート防止			共通機種 COMMON MODEL	2098 Series
	To prevent Shutter-Button Contact from short-circuiting				
Previous	-----	- -	- -	9791-1735-86	New
<div><p>9791-1735-86 WASHER/ ワッシャ Added/ 新設</p></div>					

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

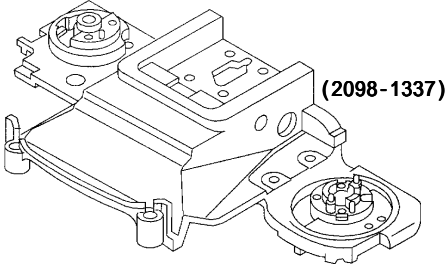
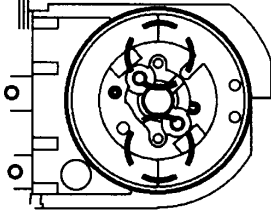
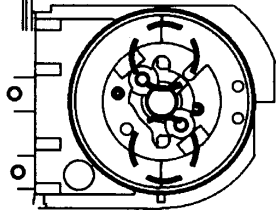
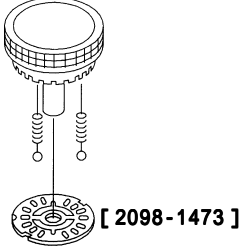

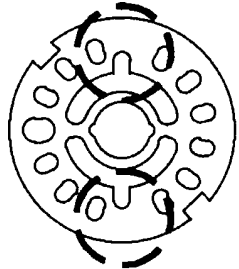
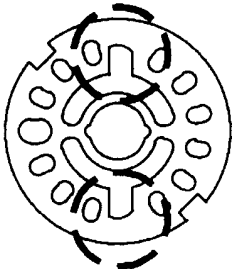
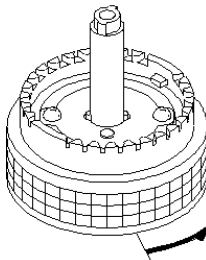
MINOLTA CO.,LTD.

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管理No.	QS FA 2098-P010
REF No.	

PARTS MODIFICATION LIST

No. 010 Parts List P. 13 2098-529, 542

変更理由 REASON	露出補正ダイヤル」操作によるボス折れ防止 To prevent post breakage beneath Exposure-Compensation Dial			共通機種 COMMON MODEL	2098 Series
Previous	2098-0130-01	-	-	2098-0130-01	New
Previous	(2098-1337-05)	×	×	(2098-1337-07)	New
<p>Related information QS FA 2098-P017 関連情報 : QS FA 2098-P017</p> <p>P. 12 P. 13</p> <p>2098-0130-01</p>  <p>(2098-1337)</p> <p>2098-0130-01:Type-1 Type-1 includes: (2098-1337-05) [2098-1473-02] Both not service parts.</p> <p>2098-0130-01:Type-2 Type-2 includes: (2098-1337-07) [2098-1473-03]</p> <p>2098-0130-01:タイプ -1 (2098-1337-05) [2098-1473-02] 組込み品/サービス非供給</p> <p>2098-0130-01:タイプ -2 (2098-1337-07) [2098-1473-03] 組込み品</p>  <p>(2098-1337-05)</p>  <p>(2098-1337-07)</p>					
Previous	(2098-0167-01)	-	-	(2098-0167-01)	New
Previous	[2098-1473-02]	×	×	[2098-1473-03]	New
<p>P. 13</p> <p>(2098-0167-01)</p>  <p>[2098-1473]</p> <p>(2098-0167-01):Type-1 Type-1 includes: [2098-1473-02] not a service part</p> <p>(2098-0167-01):Type-2 Type-2 includes: [2098-1473-03]</p> <p>(2098-0167-01):タイプ -1 [2098-1473-02] 組込み品/サービス非供給</p> <p>(2098-0167-01):タイプ -2 [2098-1473-03] 組込み品</p> <p>Installation 2098-1473-03 組込み位置</p> <p>2098-1473-03 Larger hole 穴 : 大</p>  <p>Rounded more R : 大</p>  <p>[2098-1473-02]</p>  <p>[2098-1473-03]</p> <p>2098-0167-01 Type-2/ タイプ -2</p>  <p>1/2-step index (with sheet) 1/2EV 側 (夜光シート貼付け側)</p>					
<p>• Only type-2 of 2098-0130-01 and 2098-0167-01 are available as service parts.</p> <p>• 2098-0130-01および(2098-0167-01)はタイプ-2のみ供給。</p>					
Interchangeability as a set/セットでの互換性		Previous	→○	×←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

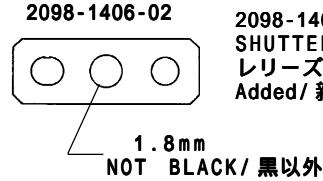
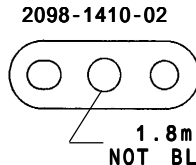
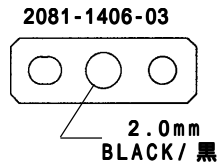
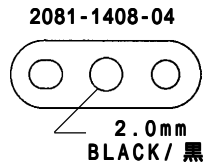
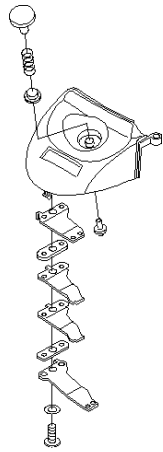
(2098)A 7

管理No. REF No.	QS FA 2098-P011
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PARTS MODIFICATION LIST

No. 011 Parts List P. 11 2098-544

変更理由 REASON	リリース接片ショート防止			共通機種 COMMON MODEL	2098 Series
	To prevent Shutter Button Contact from Short-circuitting				
Previous	2081-1406-03		×	2098-1406-02	New
Previous	2081-1408-04		×	2098-1410-02	New



2098-1410-02
SHUTTER BUTTON CONTACT INSULATOR
リリースSW 接片絶縁板
Added/ 新設

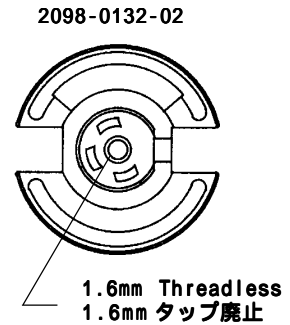
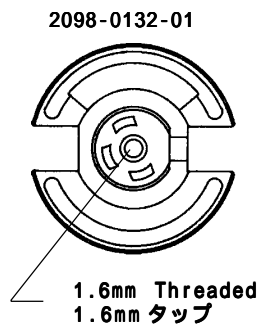
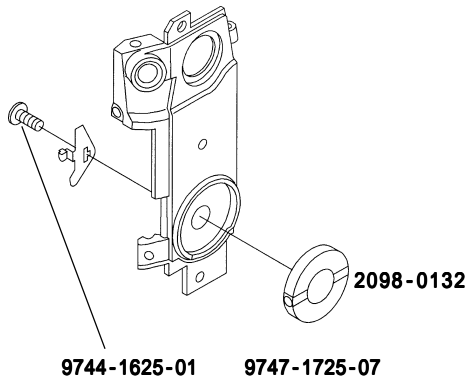
2098-1406-02
SHUTTER BUTTON CONTACT SPACER
リリースSW 接片スペーサー
Added/ 新設

管理No. REF No.	QS FA 2098-P012
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PARTS MODIFICATION LIST

No. 012 Parts List P. 10 2098-547

変更理由 REASON	コストダウン			共通機種 COMMON MODEL	2098 Series
	To cut cost				
Previous	2098-0132-01	×	×	2098-0132-02	New
Previous	9744-1625-01	×	×	9747-1725-07	New



Interchangeability as a set/セットでの互換性

Previous

→○

○←

New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

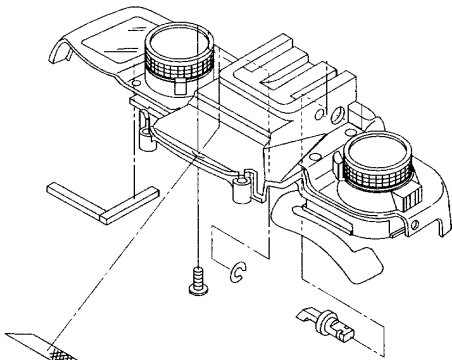
MINOLTA CO.,LTD.

(2098)A 8

管理No. REF No.	QS FA 2098-P013
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PARTS MODIFICATION LIST

No. 013 Parts List P. 12 2098-547

変更理由 REASON	投光LED位置ズレ防止			共通機種 COMMON MODEL	2098 Series
	To stabilize focus area LEDs				
Previous	9384-2391-20		×	2098-1324-03	New
<div><p>9384-2391-20 (9 x 10mm)</p><p>2098-1324-03 FINDER LIGHT SHIELD TAPE-B ファインダー遮光テープB Added/ 新設</p></div>					

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 9

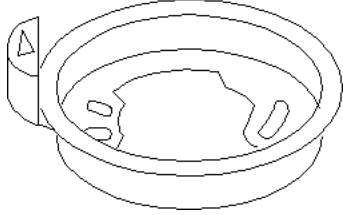
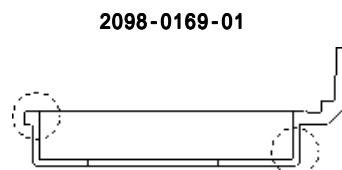
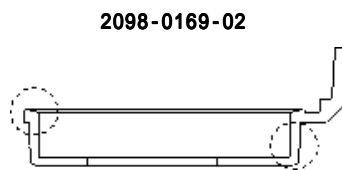
管理No. REF No.	QS FA 2098-P014
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PARTS MODIFICATION LIST

No. 014

Parts List P. 13

2098-557

変更理由 REASON	露出補正ダイヤルの作動改善			共通機種 COMMON MODEL	2098 Series
	To improve operation of Exposure-Compensation Dial				
Previous	2098-0169-01		×	2098-0169-02	New
<div><div><p>2098-0169</p></div><div><p>2098-0169-01</p></div><div><p>2098-0169-02</p></div></div>					

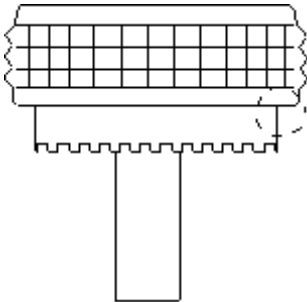
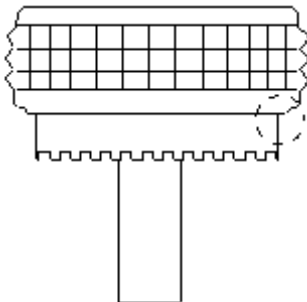
管理No. REF No.	QS FA 2098-P015
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PARTS MODIFICATION LIST

No. 015

Parts List P. 13

2098-557

変更理由 REASON	露出補正ダイヤルの隙間改善			共通機種 COMMON MODEL	2098 Series
	To fill gap beneath Exposure-Compensation Dial				
Previous	2098-0167-01		×	2098-0167-02	New
<div><div><div>2098-0167-01</div></div><div><div>2098-0167-02</div></div></div>					

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 10

管理No. REF No.	QS FA 2098-P016
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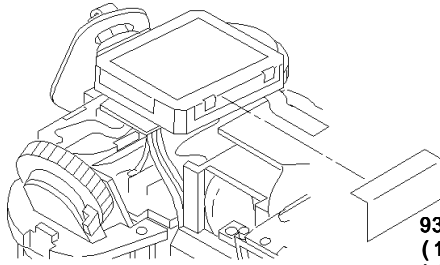
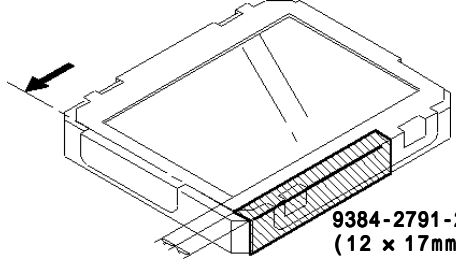
PARTS MODIFICATION LIST

No. 016

Parts List P. 1

2098-564

変更理由 REASON	フラッシュコードのショート防止 To prevent short on flash cord			共通機種 COMMON MODEL	2098 Series
	Previous	-----	- -	9384-2791-25	New

9384-2791-25
(12 × 17mm)
Added/ 追加

9384-2791-25
(12 × 17mm)

管理No. REF No.	QS FA 2098-P017
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PARTS MODIFICATION LIST

No. 017

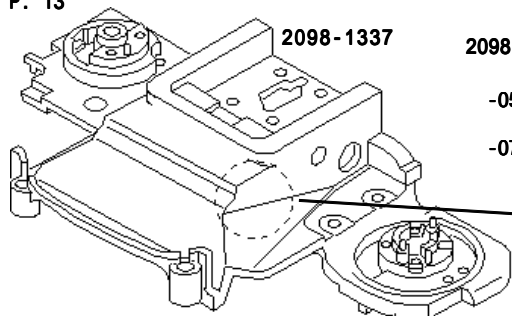
Parts List P. 1, 12, 13

2098-542

No. 017		Parts List 1: 1, 12, 13		2098-042	
変更理由 REASON	生産都合 For efficient production			共通機種 COMMON MODEL	2098 Series
	Previous	(2098-1337-05)	×	×	(2098-1337-07)
Previous	2098-1327-81	- -	- -	-----	New

P. 13

2098-1337

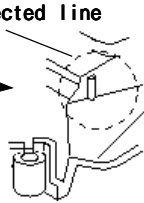


2098-1337-05

-05: Without projected line
リップなし

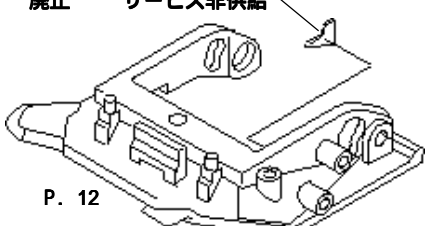
2098-1337-07

-07: With projected line
リップあり



Discontinued
廃止

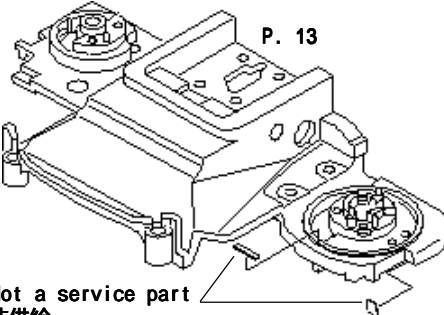
Not a service part
サービス非供給



P. 12

Discontinued
廃止

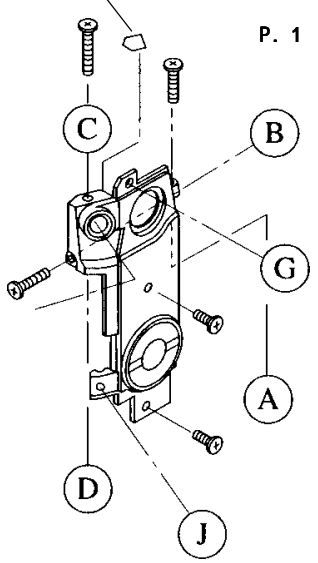
Not a service part
サービス非供給



P. 13

2098-1327-81

Discontinued/ 廃止



P. 1

Related information QS FA 2098-P010
関連情報: QS FA 2098-P010

Interchangeability as a set/セットでの互換性	Previous	→○	×←	New
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本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P018
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PARTS MODIFICATION LIST

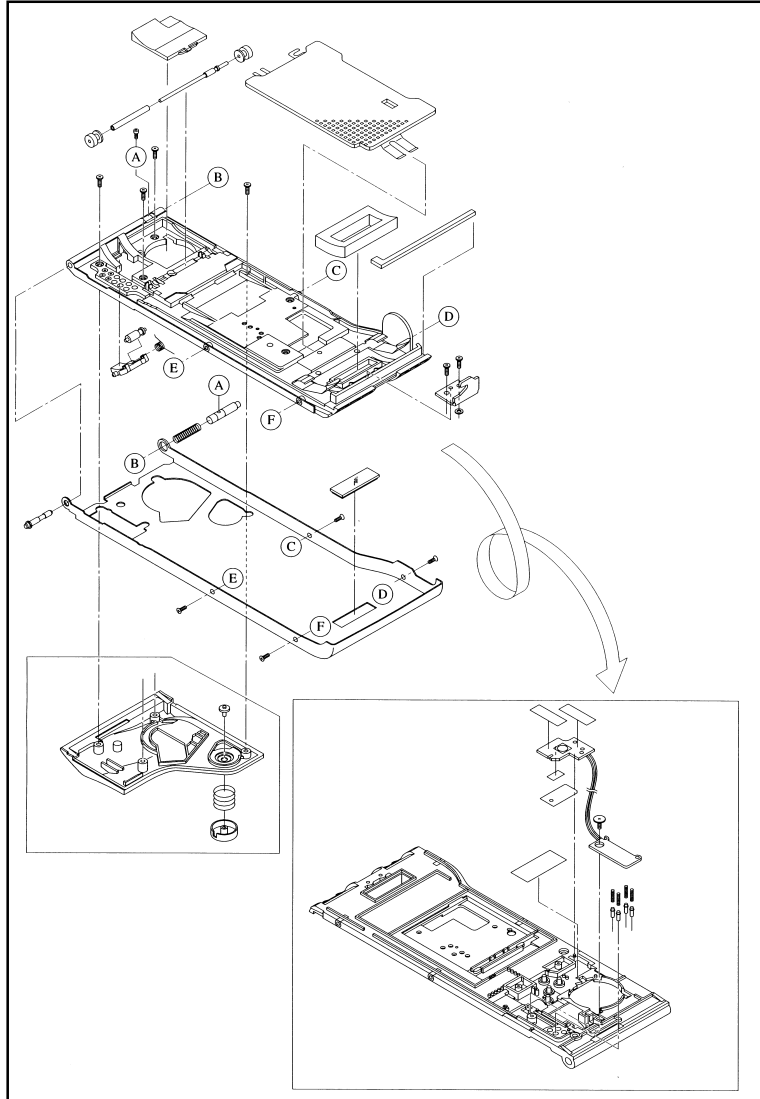
No. 018

Parts List P. 15

仮-668

変更理由 REASON	手配都合	共通機種 COMMON MODEL	2098 Series
	For efficient parts supply		
Previous	-----	- -	- -
		2098-0110-01	New

2098-0110-01
BACK COVER ASSY (COMPLETE)
裏蓋セット
Added/ 新設



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P019
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PARTS MODIFICATION LIST

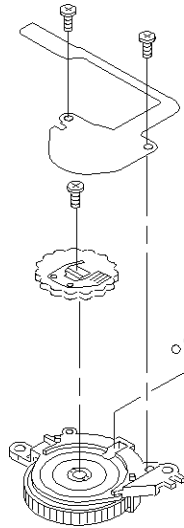
No. 019

Parts List P. 2, 4

2098-593

変更理由 REASON	前後ダイヤルのクリック力量アップ			共通機種 COMMON MODEL	2098 Series
	To increase Front/Rear-Dial tension				
Previous	2101-1466-01		×	2098-1418-01	New

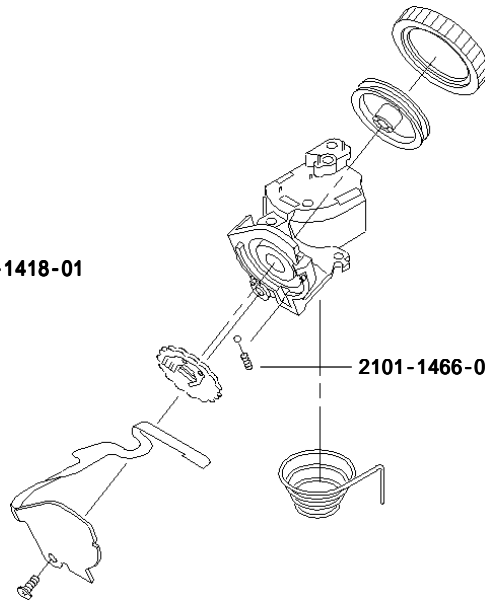
P. 2



2101-1466-01

2098-1418-01

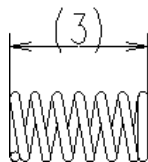
P. 4



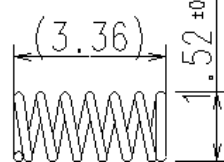
2101-1466-01

2098-1418-01

2101-1466-01



2098-1418-01



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

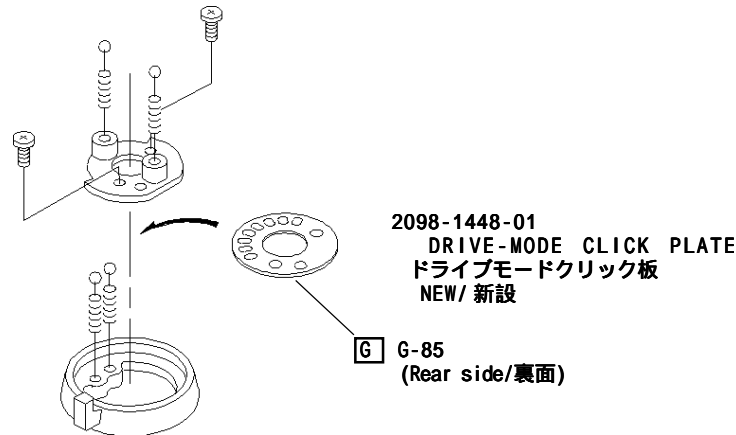
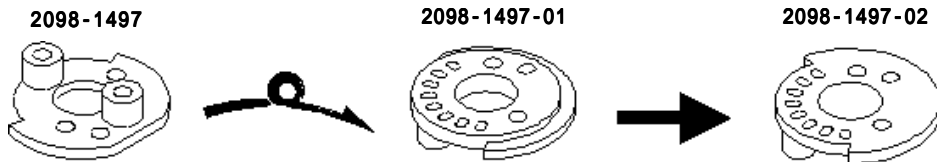
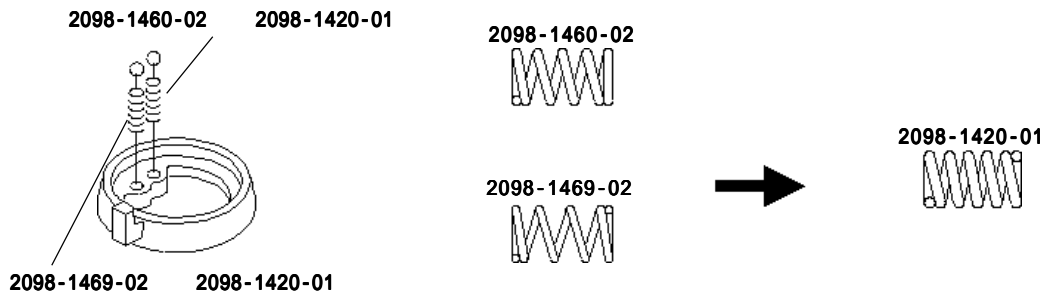
MINOLTA CO.,LTD.

(2098)A 13

管理No.	QS FA 2098-P020
REF No.	

PARTS MODIFICATION LIST

No. 020 Parts List P. 13 2098-594, 595

変更理由 REASON	ドライブモードレバーのクリック力量アップ To increase Drive-Mode Dial tension			共通機種 COMMON MODEL	2098 Series	
	Previous	-----	- -	- -	2098-1448-01	New
<div></div>						
Previous	2098-1497-01	x	x	2098-1497-02	New	
<div></div>						
Previous	2098-1469-02	x	x	2098-1420-01	New	
Previous	2098-1460-02					
<div></div>						
Interchangeability as a set/セットでの互換性		Previous	→○	×←	New	

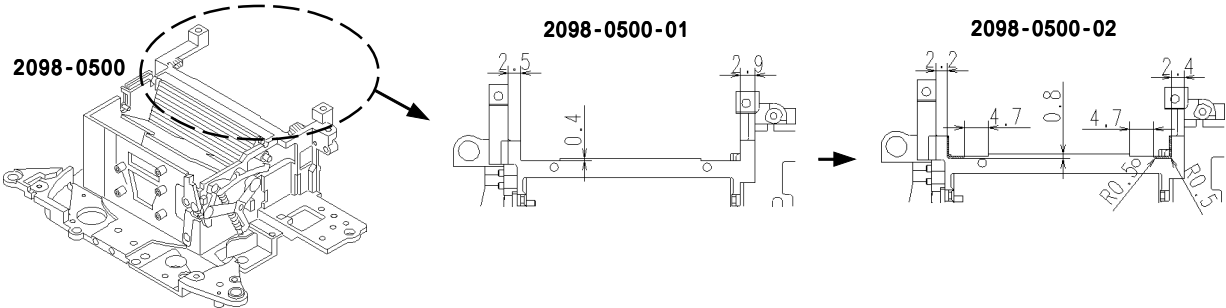
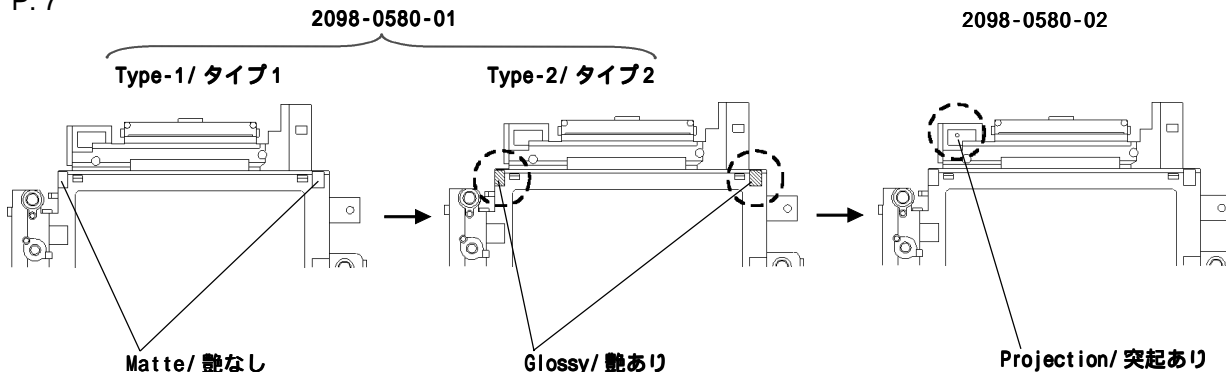
本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。
According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

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管理No. REF No.	QS FA 2098-P021
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PARTS MODIFICATION LIST

No. 021	Parts List P. 7, 8, 9	2098-608	SUPPLEMENTARY INFORMATION QS FA 2098-S02J/E		
変更理由 REASON	焦点板ホルダー軸受けの補強	共通機種 COMMON MODEL		2098 Series	
	To secure holder of Focusing Screen				
Previous	2098-0500-01		×	2098-0500-02	New
<p>P. 8 P. 9</p> 					
Previous	2098-0580-01	×	×	2098-0580-02	New
<p>P. 7</p> 					
Interchangeability as a set/セットでの互換性		Previous	→○	×←	New

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P022
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PARTS MODIFICATION LIST

No. 022

Parts List P. 7

2098-626

変更理由 REASON	光漏れ防止			共通機種 COMMON MODEL	2098 Series
	To prevent light leak				
Previous	-----	- -	- -	2098-5003-01	New

(2098-0585-01)

2098-5003-01
LIGHT SHIELD SHEET-A
接眼レンズホルダー遮光シートA
New/ 新設

Reference line
貼付け基準

Affix #2098-5003 to shaded area.
斜線部に 2098-5003 を貼り付ける。

管理No. REF No.	QS FA 2098-P023
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PARTS MODIFICATION LIST

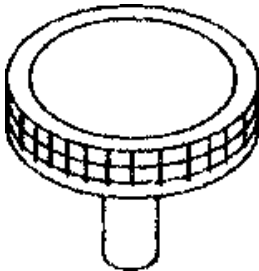
No. 023

Parts List P. 13

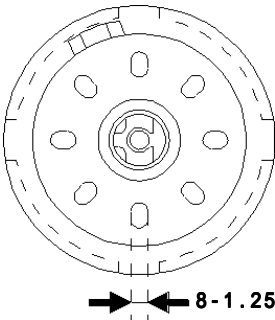
2098-628

変更理由 REASON	露出モードダイヤルのクリック力量アップ			共通機種 COMMON MODEL	2098 Series
	Increase tension of Expoure-Mode Dial				
Previous	2098-0162-01		×	2098-0162-02	New

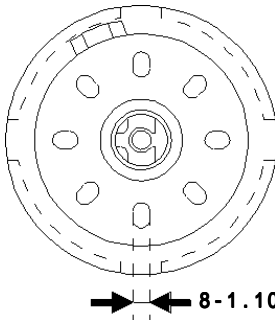
2098-0162



2098-0162-01



2098-0162-02



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 16

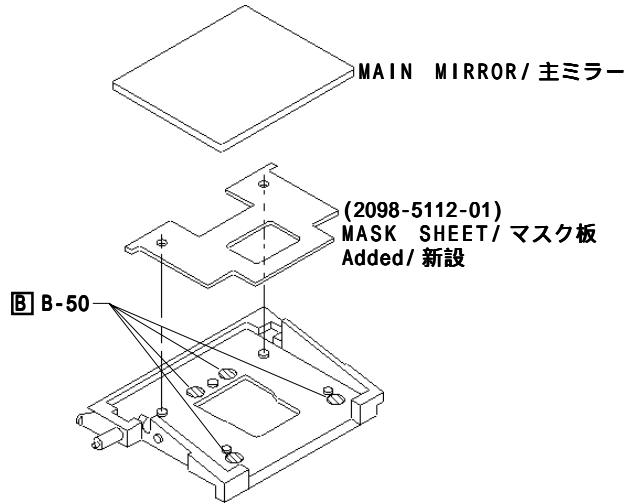
管理No. REF No.	QS FA 2098-P024
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PARTS MODIFICATION LIST

No. 024 Parts List P. 9 仮-692

変更理由 REASON	サービス用部品として供給			共通機種 COMMON MODEL	2098 Series
	Added as a service part				
Previous	-----	- -	- -	(2098-5112-01)	New

MIRROR BOX ASSY
ミラーボックスセット

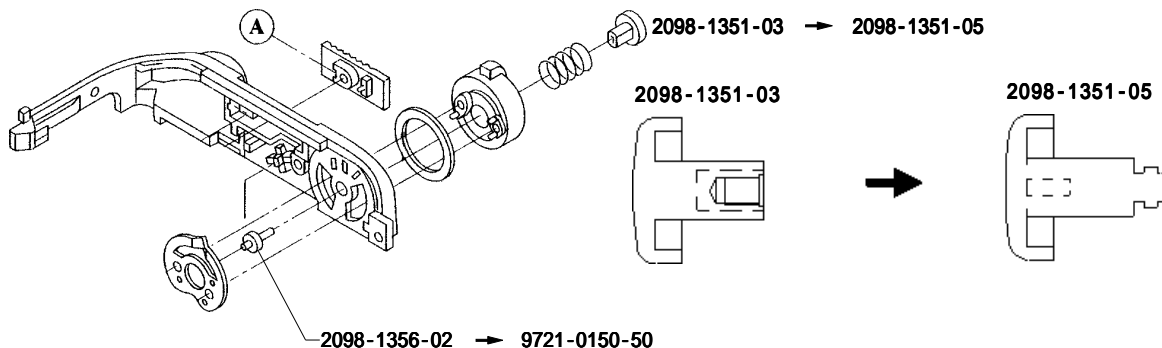


管理No. REF No.	QS FA 2098-P025
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PARTS MODIFICATION LIST

No. 025 Parts List P. 11 2098-629,-630

変更理由 REASON	コストダウン			共通機種 COMMON MODEL	2098 Series
	To cut cost				
Previous	2098-1351-03	×	×	2098-1351-05	New
Previous	2098-1356-02	- -	- -	-----	New
Previous	-----	- -	- -	9721-0150-50	New



Interchangeability as a set/セットでの互換性	Previous	→○	○←	New
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本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

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管理No.	QS FA 2098-P026
REF No.	

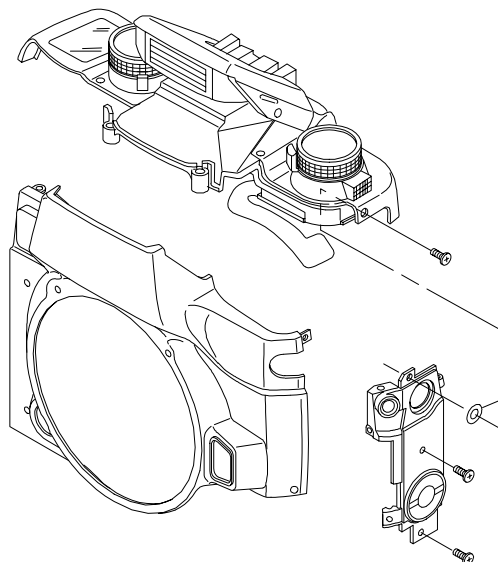
PARTS MODIFICATION LIST

No. 026

Parts List P. 17

仮-706

変更理由 REASON	前カバーと上カバーの段差修正			共通機種 COMMON MODEL	2098-150, -350, -550
	To compemsate difference between Front and Top Covers				
Previous	-----	- -	- -	9791-1735-40	New
Previous	-----	- -	- -	9792-1735-20	New



9791-1735-40 (0-1)
9792-1735-20
WASHER/ ワッシャ
Added/ 追加

Install Top Cover Assy and Insert Washer between Top Cover and Side Cover-B.
上カバーセットを取付け後、上カバーとサイドカバー B の隙間にワッシャを挿入する。

- Add the washer if there is 0.3mm or more difference between Front and Top Covers around film chamber side.
- 巻戻し側の前カバーと上カバーの段差が0.3mmを超えるものに対し、ワッシャを使用する。

管理No.	QS FA 2098-P027
REF No.	

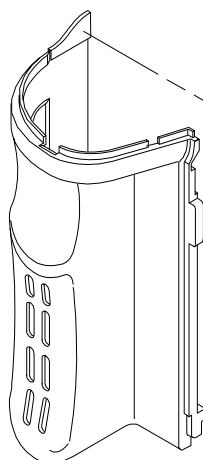
PARTS MODIFICATION LIST

No. 027

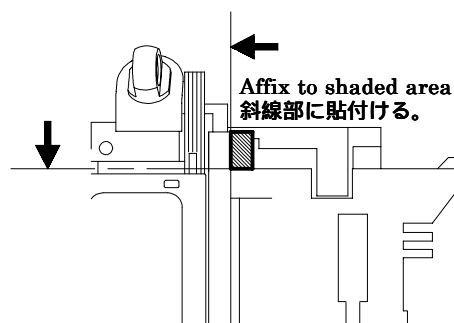
Parts List P. 17

2098-652

変更理由 REASON	グリップゴムの接着力強化			共通機種 COMMON MODEL	2098-150, -350, -550
	To secure ashesion of Grip Rubber				
Previous	-----	- -	- -	9384-2190-60	New



9384-2190-60
(3X5mm)
Added/ 追加



本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

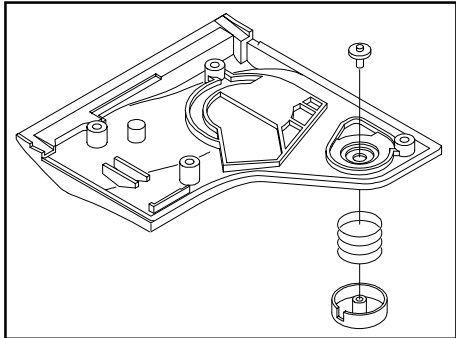
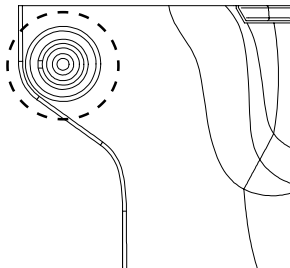
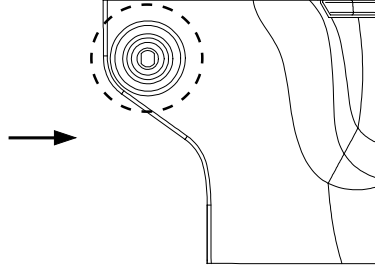
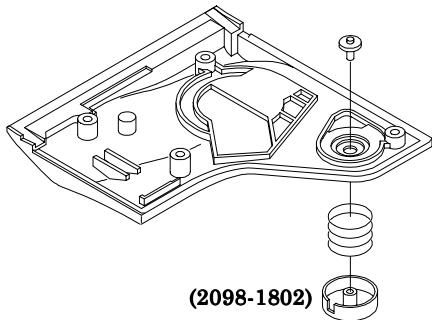
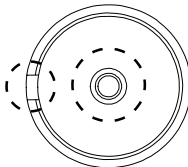
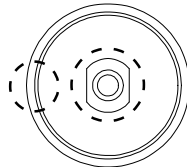
MINOLTA CO.,LTD.

(2098)A 18

管理No.	QS FA 2098-P028
REF No.	

PARTS MODIFICATION LIST

No. 028 Parts List P. 15 2098-654

変更理由 REASON	コストダウン			共通機種 COMMON MODEL	2098 Series	
	To cut cost					
Previous	2098-0182-01			2098-0182-02	New	
<div><div>2098-0182</div><div></div></div> <div><div>2098-0182-01</div><div></div></div> <div><div>2098-0182-02</div><div></div></div>						
Previous	(2098-1802-03)	×	×	(2098-1802-05)	New	
<div><div>(2098-1802)</div><div></div></div> <div><div>(2098-1802-03)</div><div></div></div> <div><div>(2098-1802-05)</div><div></div></div>						
Interchangeability as a set/セットでの互換性		Previous	→○	○←	New	

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List" in Service Manual for effective parts management.

MINOLTA CO.,LTD.

管理No. REF No.	QS FA 2098-P029
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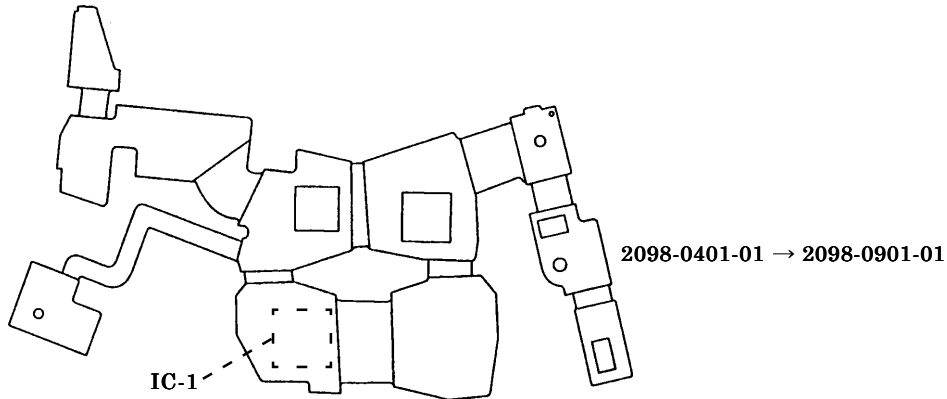
PARTS MODIFICATION LIST

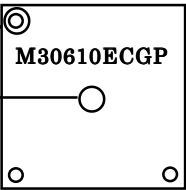
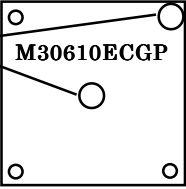
■No. 029

Parts List P. 2

仮-716

変更理由 REASON	仕様変更			共通機種 COMMON MODEL	2098-100, -300, -500
	Specification change				
Previous	2098-0401-01	→○	×←	2098-0901-01	New



	IC-1		
2098-0401-01	Yellow dots 黄マーキング 	98C-4101-01 M30612MA -313GP	98C-4101-02 M30612MA -319GP
2098-0901-01	Yellow dots 黄マーキング 	98C-TTTT-03 M30612MA -335GP	

NOTE: When installing #2098-0901 to normal model (-100/300/500), be sure to set "NORMAL" in Model Set mode with HIT Controller so that camera function is the same as #2098-0401.
(See pg. 58, REPAIR GUIDE)

※ノーマルバージョン(2098-100, -300, -500)でAフレキセット(2098-0901)を使用する場合、必ずモデル設定(修理編P. 58)で“NORMAL”を選択して下さい。

■本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

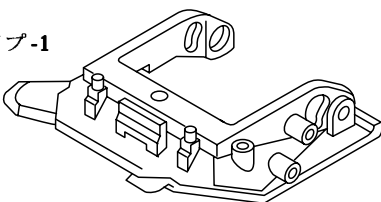
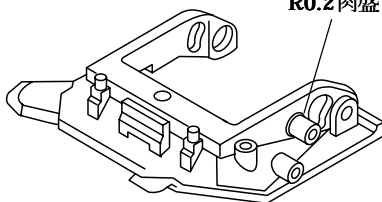
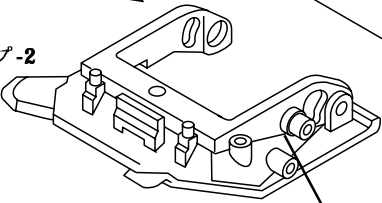
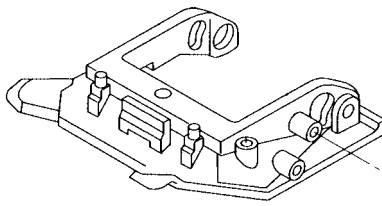

According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

(2098)A 20

管理No. REF No.	QS FA 2098-P030
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PARTS MODIFICATION LIST

No. 030	Parts List P. 12	2098-658,659			
変更理由 REASON	フラッシュアップSP軸の割れ防止			共通機種 COMMON MODEL	2098-Series
	To improve strength of the shaft for flash up SP.				
Previous	2098-1602-04	x	x	2098-1602-06	New
<div><div><p>2098-1602-04</p><p>Type-1/ タイプ-1</p></div><div><p>2098-1602-06</p><p>Padding (R 0.2) R0.2肉盛</p></div><div><p>Type-2/ タイプ-2</p></div><p>Apply adhesive to the ring. (Not supplied.) リングを接着 ※サービス非供給</p></div>					
Previous	2098-1609-01	x	x	2098-1609-02	New
<div><p>2098-1609-01 → 2098-1609-02</p></div> <div><p>2098-1609-01 Color: Brown 色 : 茶色</p><p>2098-1609-02 Color: Gray 色 : シルバー</p></div>					
NOTE: TOP COVER ASSY #2098-0319/0930 in spare parts stock will be replaced with the modified type. 上カバーセット(# 2098-1609-01, # 2098-1609-02) は、新タイプ付きに入れ替えます。					
Interchangeability as a set/セットでの互換性		Previous		x	New

■ 本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

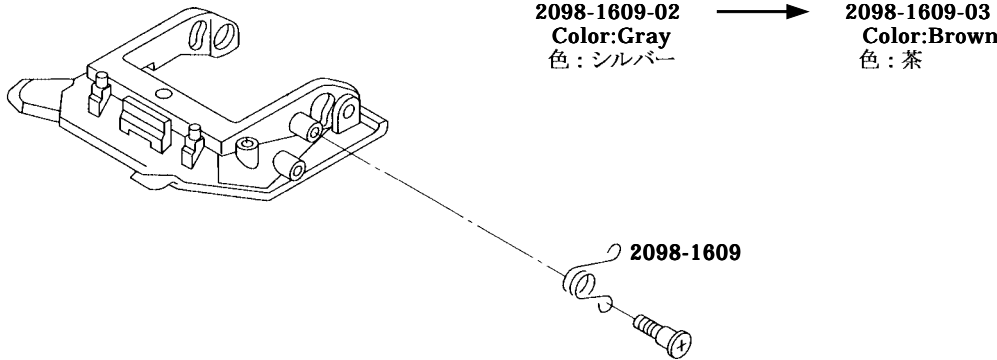
管理No.	QS FA 2098-P031
REF No.	

PARTS MODIFICATION LIST

No. 031

Parts List P. 12

2098-667

変更理由 REASON	フラッシュ作動の改善			共通機種 COMMON MODEL	2098 Series
	To improve flash up/down motion.				
Previous	2098-1609-02		×	2098-1609-03	New
<div></div>					
・ 2098-1609-03は2098-1609-01と同一部品です。 Type-01 (brown) and Type-03 of #2098-1609 are completely the same.					

■ 本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct “Parts List” in Service Manual for effective parts management.

MINOLTA CO.,LTD.

REF No. 管理No.	QS FA 2098-P032
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PARTS MODIFICATION LIST

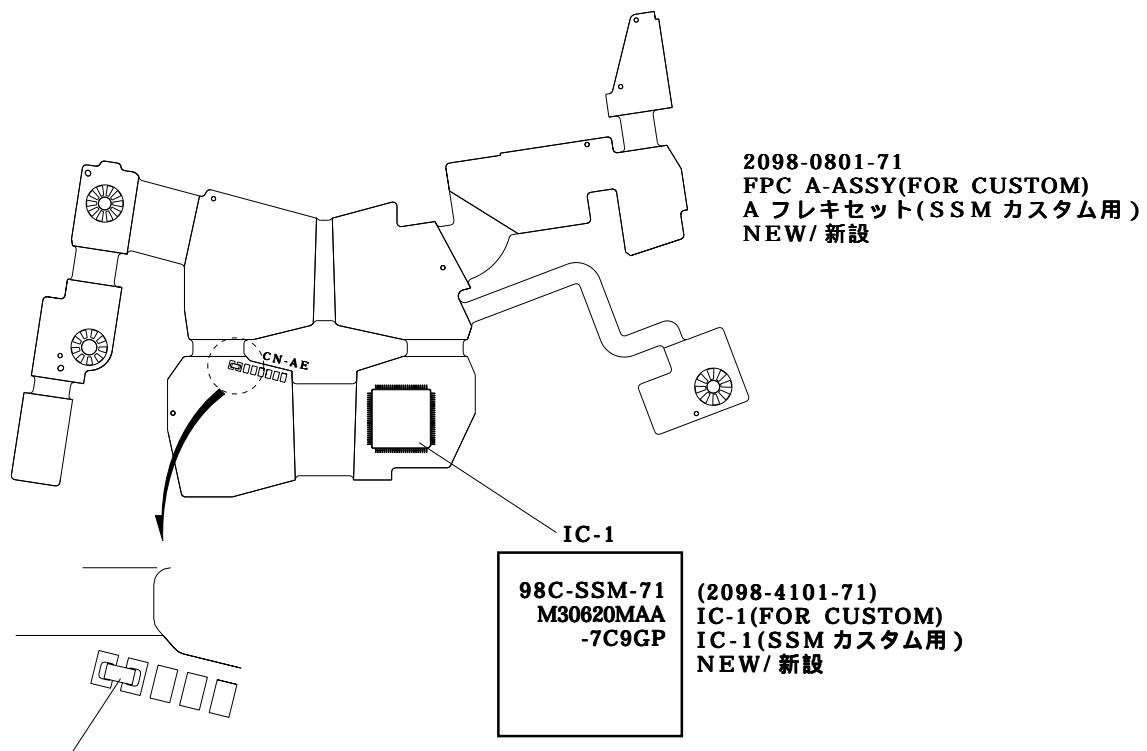
Division 主管部署	Camera CS Division カメラCS部
Valid from 施行年月日	June 16. 2003

Approved by 承認	Verified by 審査	Written by 作成
Tanizaki	Okamoto	Matsui K.Tanaka

Parts List P. 2,17

版 848 SUPPLEMENTARY INFORMATION QS FA 2098-S05J/E

REASON 変更理由	SSMレンズ対応 (カスタムサービス)			COMMON MODEL 共通機種	2098 Series
	SSM Lens (Custom Service)				
Previous		- -	- -	2098-0801-71	New
Previous		- -	- -	(2098-4101-71)	New
Previous		- -	- -	9432-3326-67	New



After soldering FPC of BL CONTACT HOLDER ASSY(2098-0150-01),
attach REGISTOR(9432-3326-67) between 7 and 8 of CN-AE.
B L 接点ホルダーセット A の半田付後、CN-AE の 間に取り付ける。

NOTE: Set SSM Custom after replacing parts.(Refer to "Supplementary Information QS-FA2098-S05E")
部品交換後カスタム設定を行ってください。(サプリメンタリーインフォメーション QS-FA 2098-S05J 参照)

本案内状に従い、パーツリストへの転記等、メンテナンスを行なってください。

According to this list, correct "Parts List "in Service Manual for effective parts management.

MINOLTA CO.,LTD.

Repair Guide

- Contents of this manual are in accordance with the assembly procedure. Therefore, follow the reverse procedure when disassembly.
- Refer to Wiring diagram on Parts List, page 16 for wiring.

■ : Cautions and keypoints

G: Grease

B: Adhesive

T: Tool

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■Precautions

■Chemicals

Handle chemicals of high volatility with care, use of which will affect to your health and environment.

1. Store them sealed in a specific place to prevent exposure to high temperature or direct sunlight.
2. Avoid dividing them into small containers and prevent vaporization.
3. Keep containers sealed when not in use.
4. Avoid using them as much as possible. When required, remove only required amount from the container to make full use.

■Plastic parts

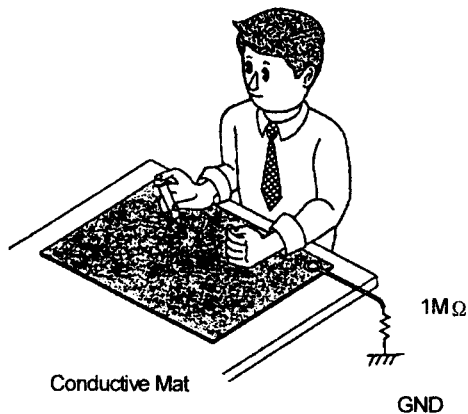
1. When cleaning plastic parts, use cleaning paper or cloth. Never use thinner, ketone, ether.
2. When installing plastic parts, insert the specific screws vertically to the parts. (Be careful not to tighten too much.

■PCBs

Since PCBs use MOS IC, you must reduce static electricity. When repairing a PCB itself, or when wiring, please perform your work as illustrated below.

If grounding is impossible, connect a cable to a steel desk or shelf.

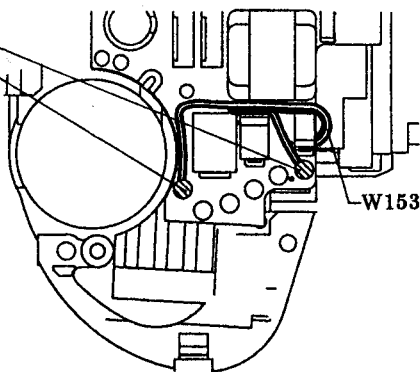
Keep touching the conductive mat while you work.



■Discharge

Before disassembly, be sure to discharge the main condenser in the following manner. (Fig. 1)

Short-circuit with discharger or resistor of 200-300 ohm/3w.
Check voltage to make sure it is discharged.

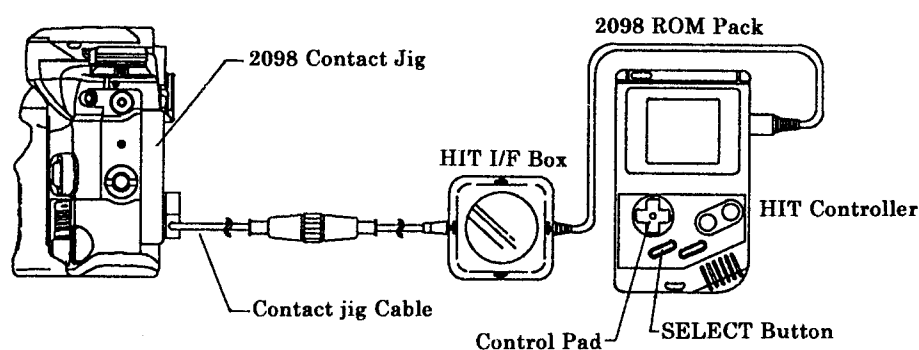


■ To inhibit flash charge

Be sure to make flash charge available after repair.

1. Setup the camera as Fig. 2.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "FLASH CHARGE ON/OFF" from assist mode menu and press SELECT Button.
4. Press Shutter-Release Button partway down.
5. Press Button-A or -B to select flash charge on/off. And press SELECT Button.
 Button-A: ON (flash charge available)
 Button-B: OFF (flash charge inhibited)
6. Press Shutter-Release Button partway down. HIT Controller beeps.
7. Re-install Battery.

■ Fig. 2

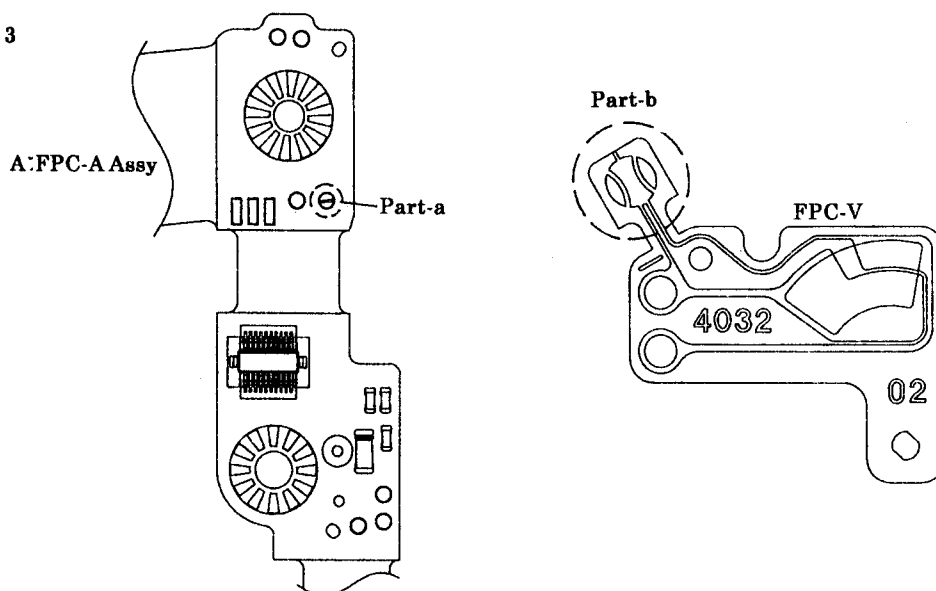


■ To activate without Top Cover (Fig. 3)

- Short-circuit the pattern -a of FPC-A Assy #0401 with solder.
- When using replacement FPC-V #4032, no need to short these patterns because it has pattern-b.

*Before installing Top Cover, be sure to unsolder the pattern-a or cut the pattern-b.

■ Fig. 3



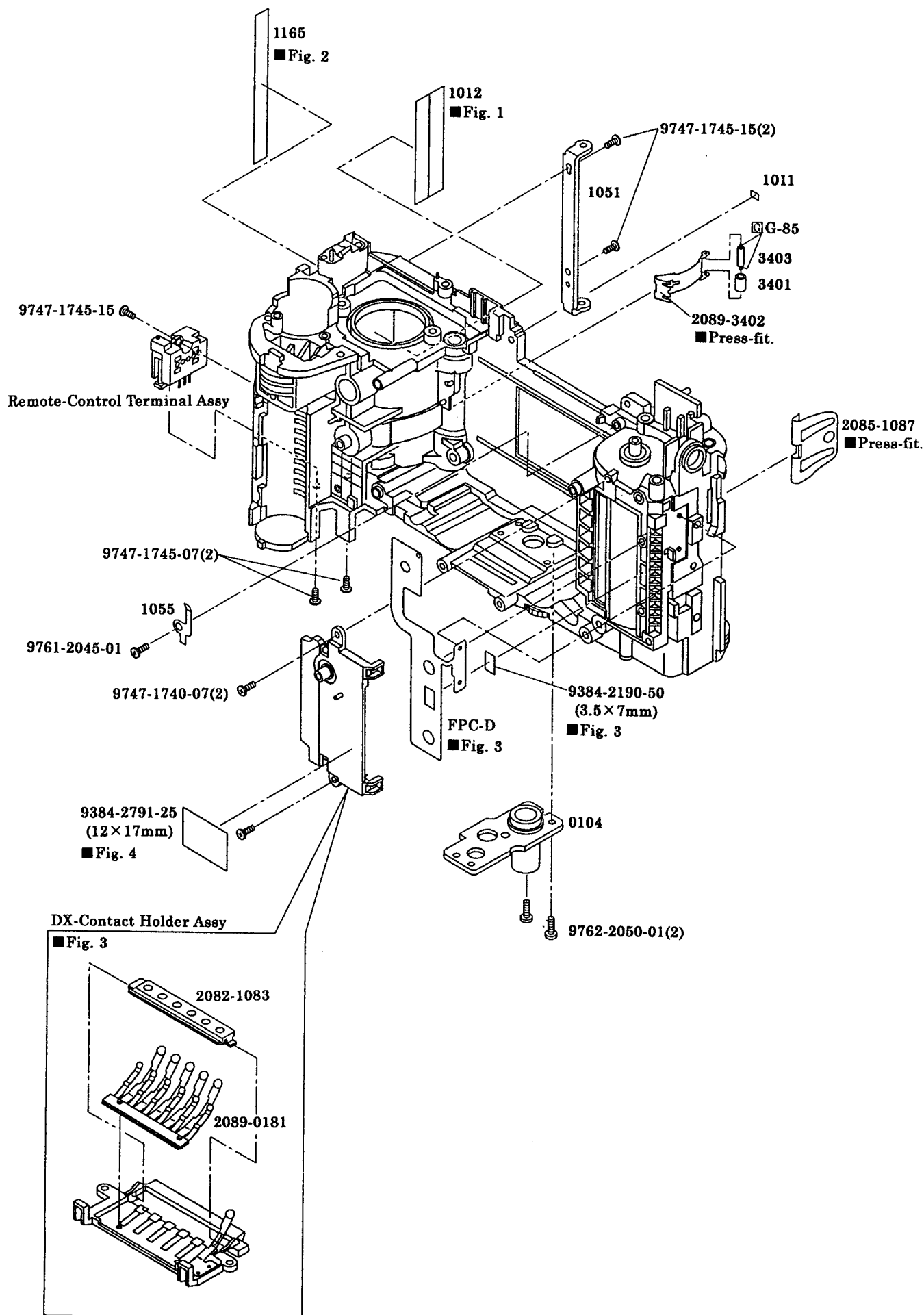
■ Replacing FPC-A Assy #0401

Initial setting after FPC-A Assy replacement is:

- Flash charge inhibited
- Erratic display in Data Panel.

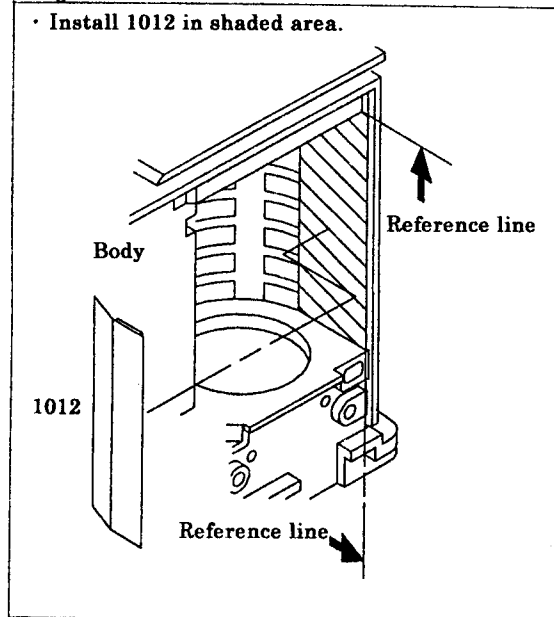
*Battery installation after Flash level Adjustment (P. 49) will reset these settings.

1 FPC-D, DX-Contact Holder Assy, Remote-Control Terminal Assy Installation



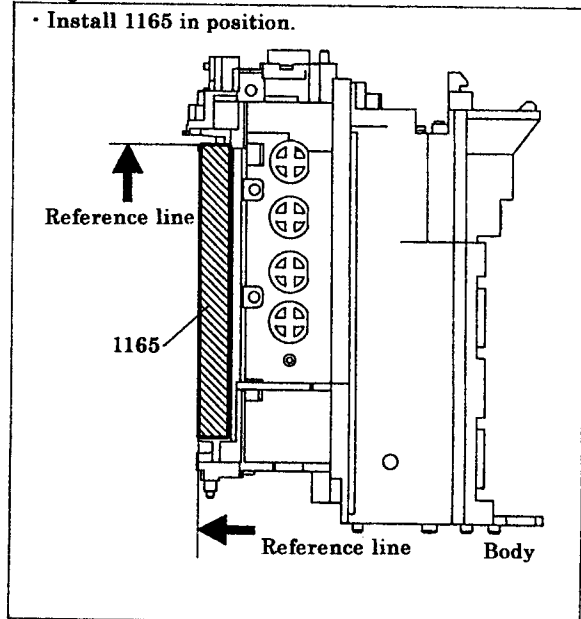
■ Fig. 1

- Install 1012 in shaded area.



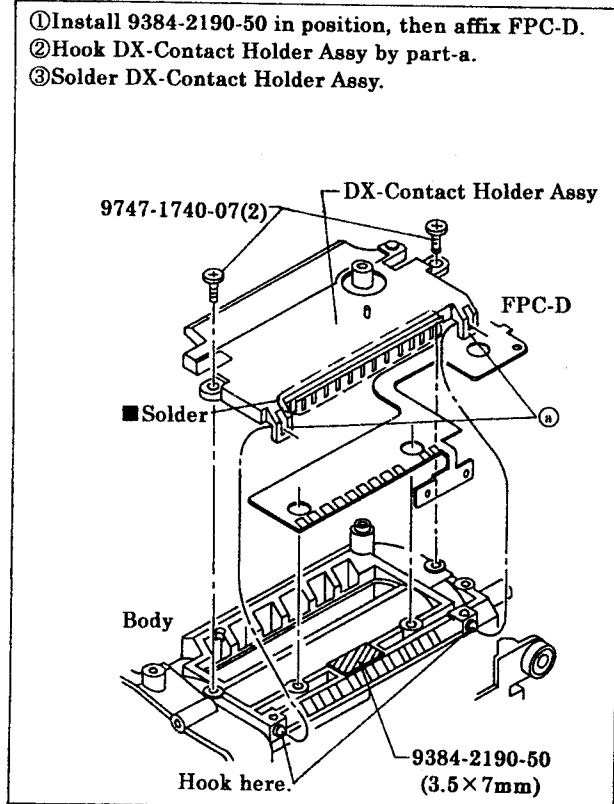
■ Fig. 2

- Install 1165 in position.



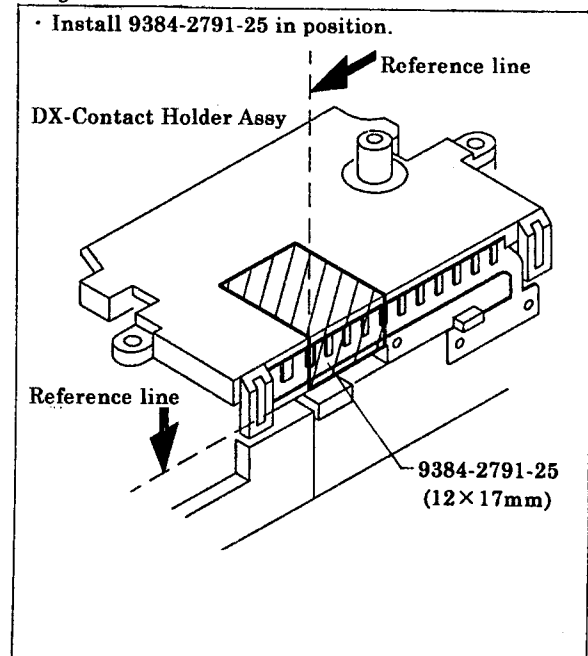
■ Fig. 3

- ① Install 9384-2190-50 in position, then affix FPC-D.
- ② Hook DX-Contact Holder Assy by part-a.
- ③ Solder DX-Contact Holder Assy.



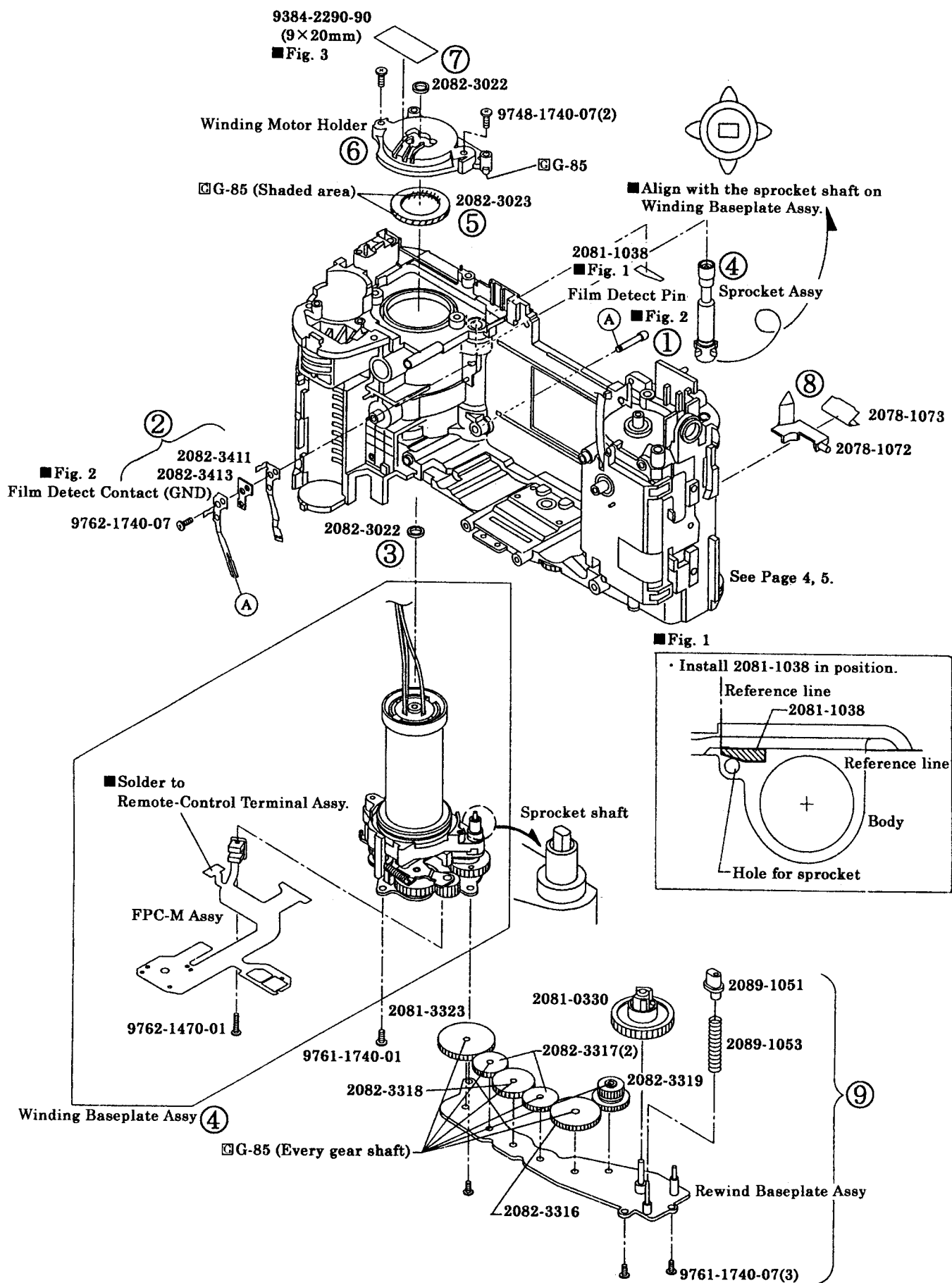
■ Fig. 4

- Install 9384-2791-25 in position.



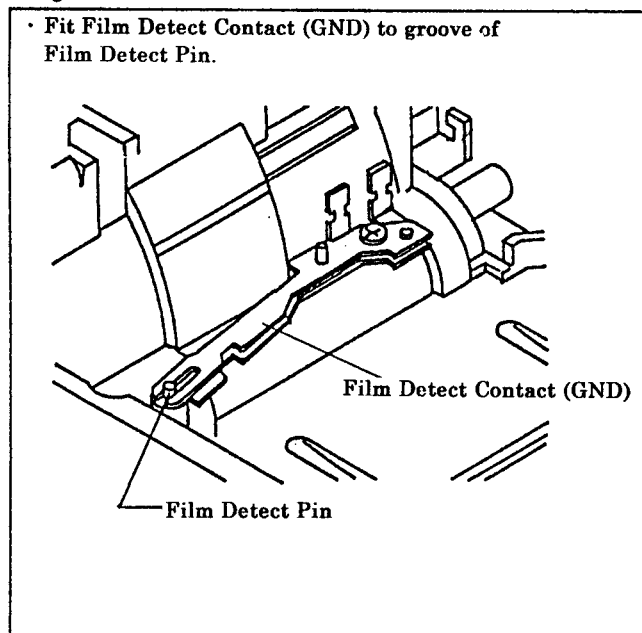
■ Install in the order of ① to ⑨.

■ After replacing Winding Baseplate Assy, perform Operation Check (pg. 7).



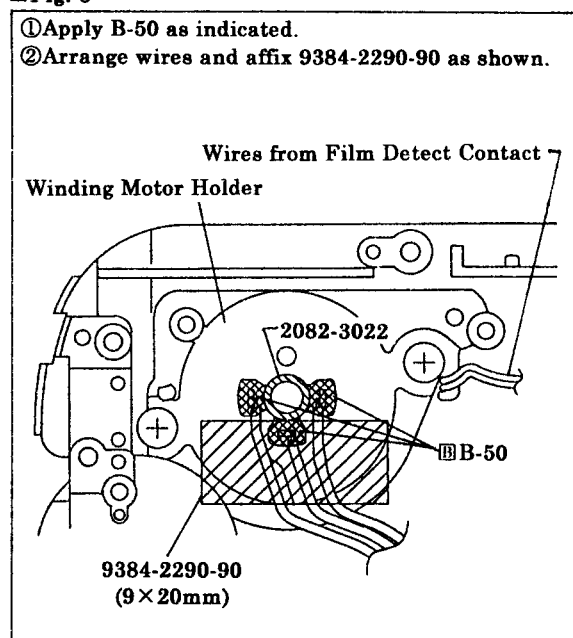
■ Fig. 2

- Fit Film Detect Contact (GND) to groove of Film Detect Pin.



■ Fig. 3

- ① Apply B-50 as indicated.
- ② Arrange wires and affix 9384-2290-90 as shown.

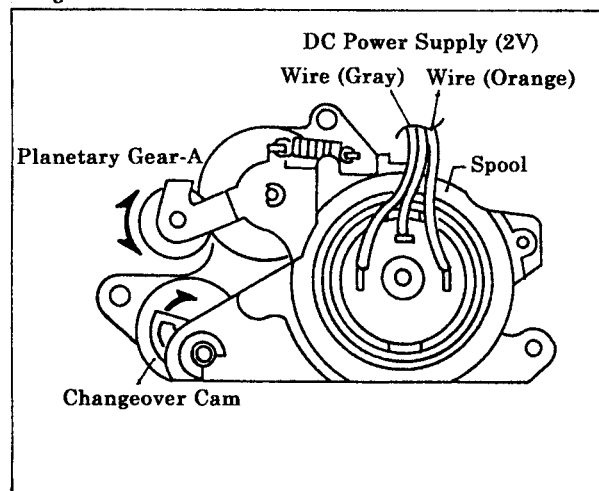


■ Winding Baseplate Assy Operation Check

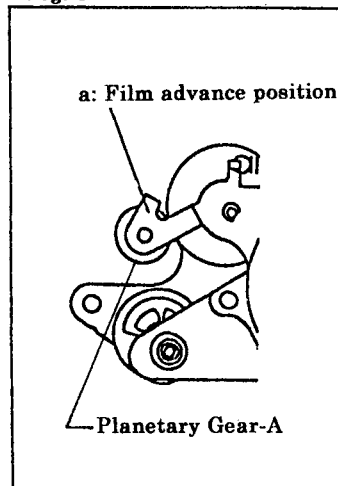
* Set DC Power Supply to 2V, 1A (Fig. 4).

1. Planetary Gear-A operation
Apply power to wires; Gray: +, Orange: -.
Check that Planetary Gear-A moves up and down.
2. Film advance
Apply power as above until Planetary Gear-A stops at position-a in Fig. 5.
Apply power to opposite wires; Gray: -, Orange: +.
Check that both Spool and Planetary Gear-A drive.
3. Film rewind
Apply power as above until Planetary Gear-A stops at position-b in Fig. 6.
Apply power to opposite wires; Gray: -, Orange: +.
Check that Planetary Gear-A drives solely.

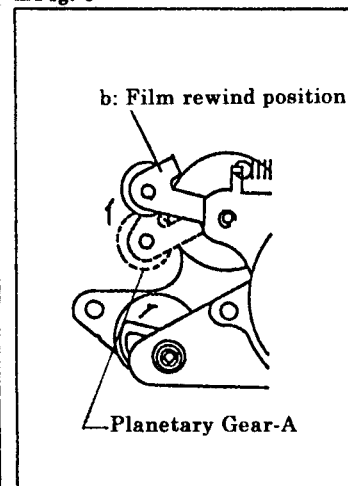
■ Fig. 4



■ Fig. 5

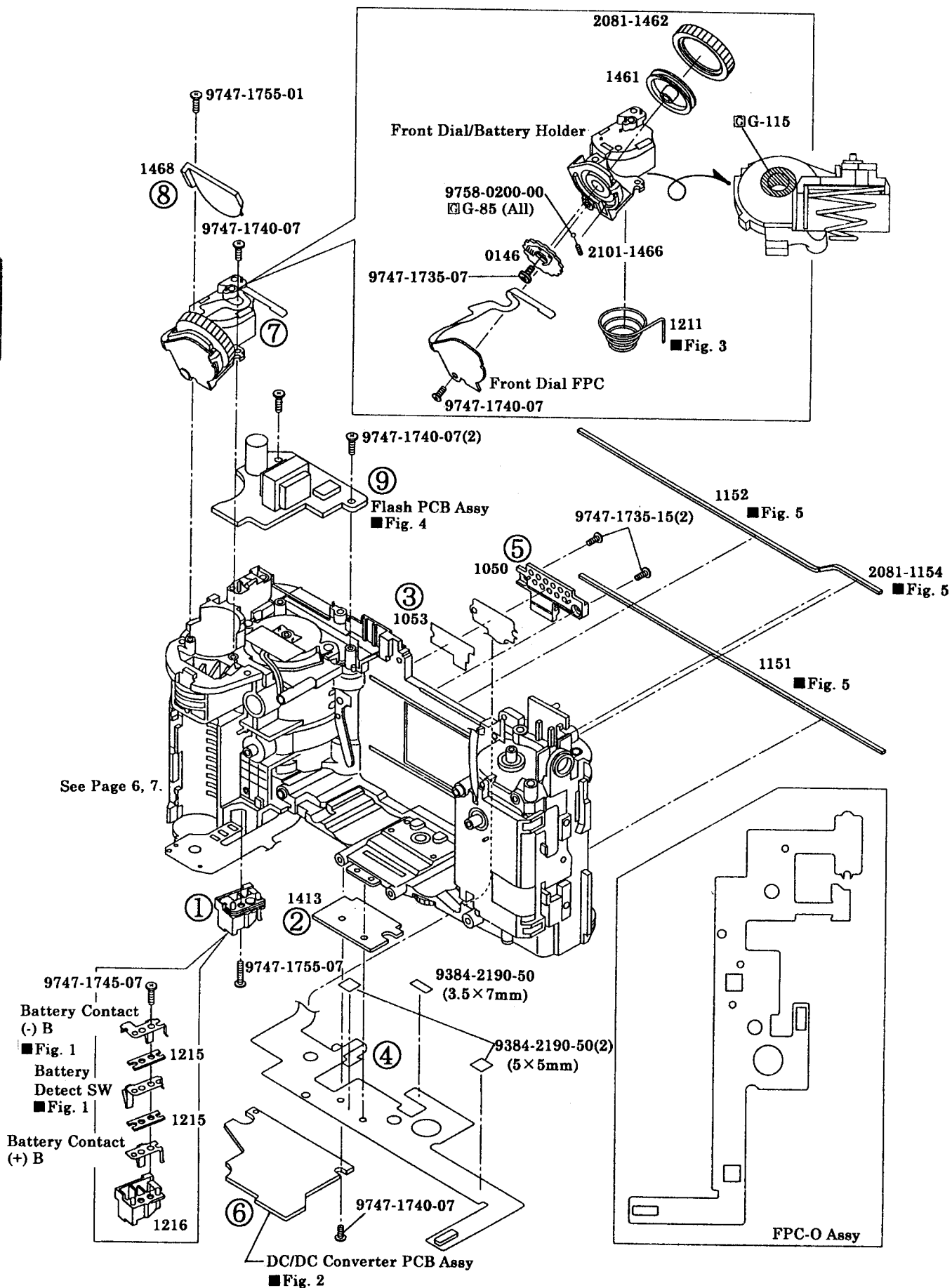


■ Fig. 6



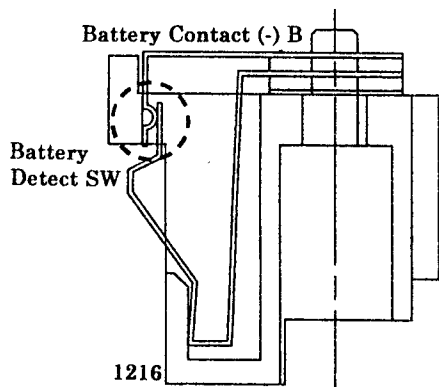
3 DC/DC Converter PCB Assy, Flash PCB Assy Installation

■ Install in the order from ① to ⑨.



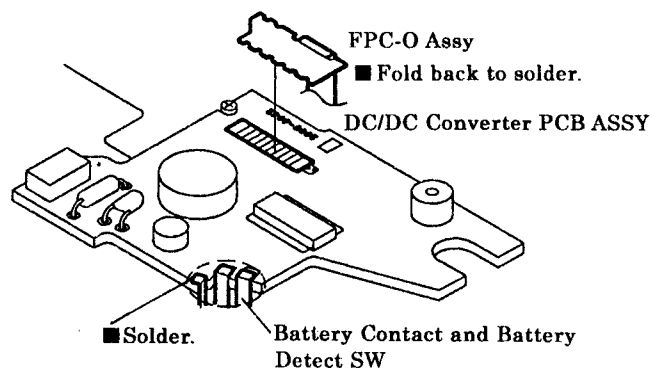
■ Fig. 1

- Install Battery Detect SW so that it contacts surely with Battery Contact (-) B as shown.



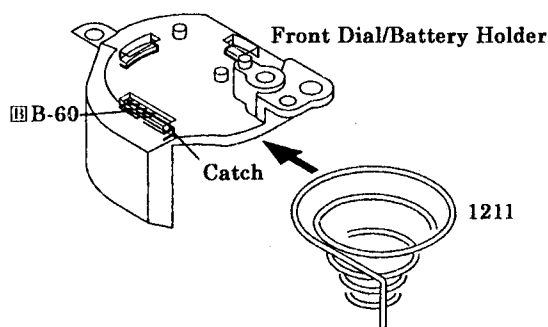
■ Fig. 2

- ① Install DC/DC Converter PCB Assy beneath Battery Contact and Battery Detect SW.
- ② Solder FPC-O Assy, Battery Contact, and Battery Detect SW.



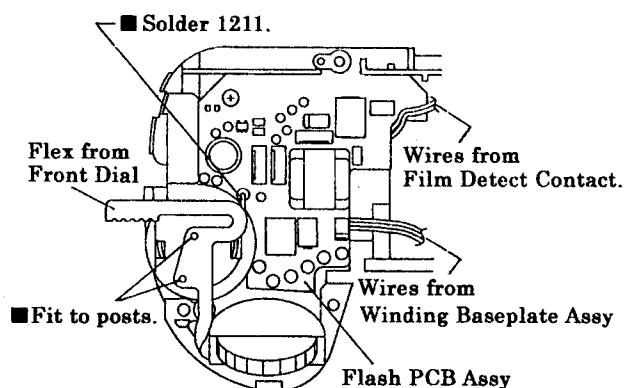
■ Fig. 3

- Insert 1211 to catch of Front Dial/Battery Holder in arrow direction. Then apply B-60 to shaded area.



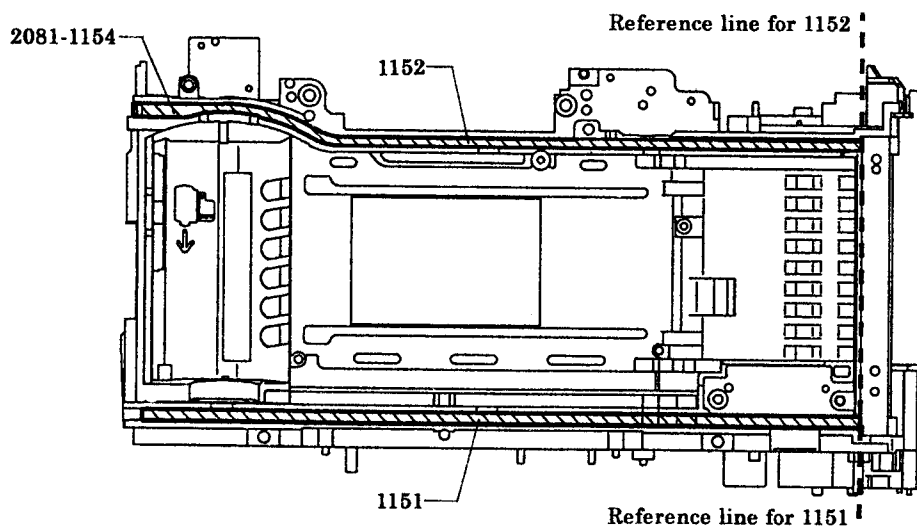
■ Fig. 4

- ① Install Flash PCB Assy and arrange wires and flex. from Front Dial.
- ② Solder 1211.



■ Fig. 5

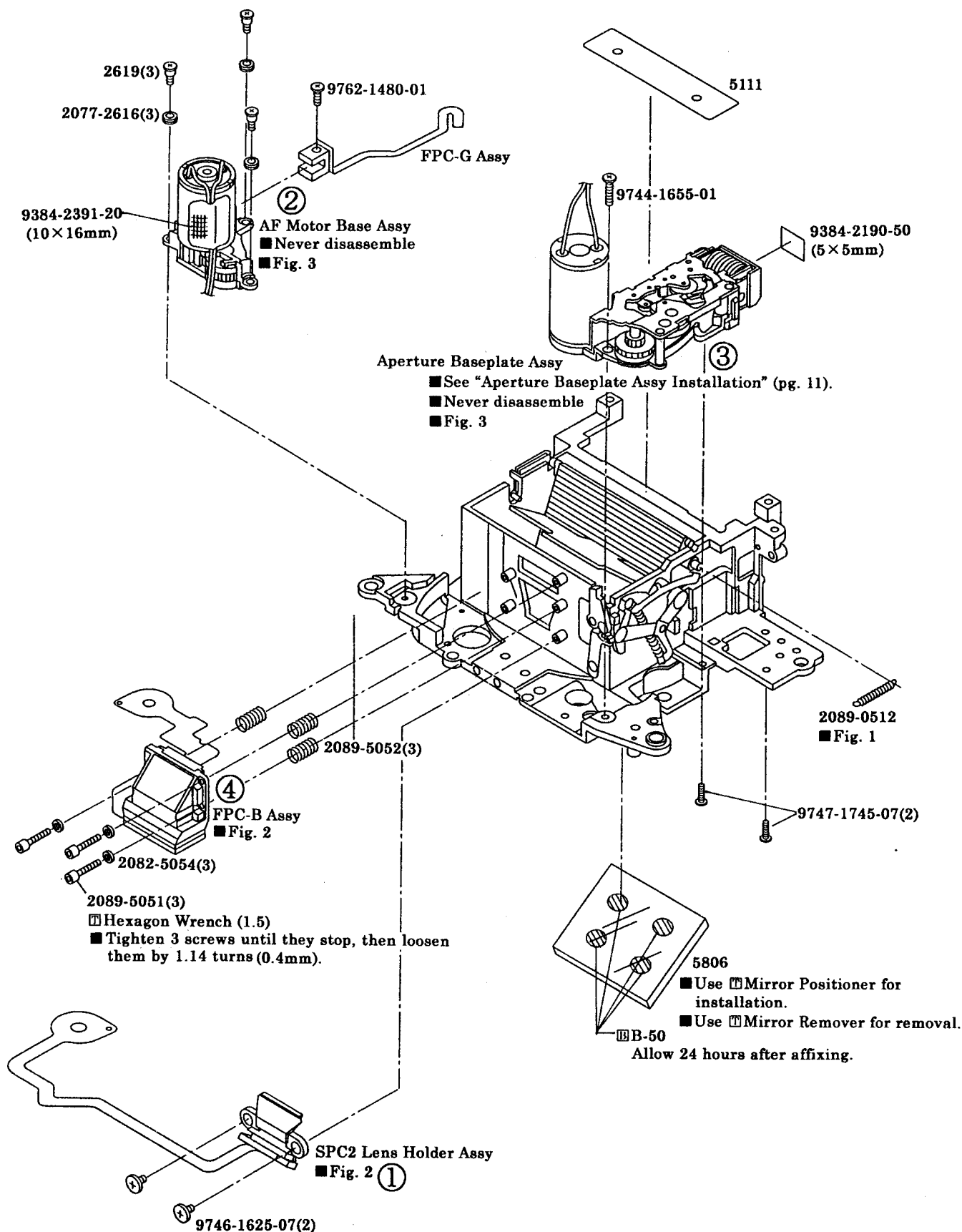
- Install 1151, 1152 and 2081-1154 in position.



Mirror Box Assy Assembly-I

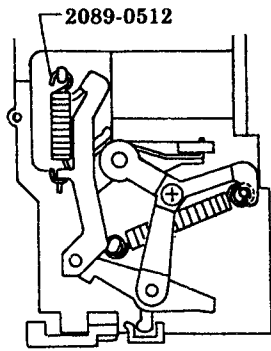
■ Install in the order of ① to ④.

■ After assembly, perform "Mirror Box Operation Check-1" (pg. 17).



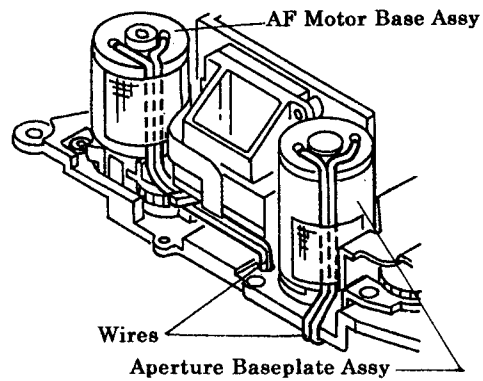
■ Fig. 1

- Hook 2089-0512 as shown.



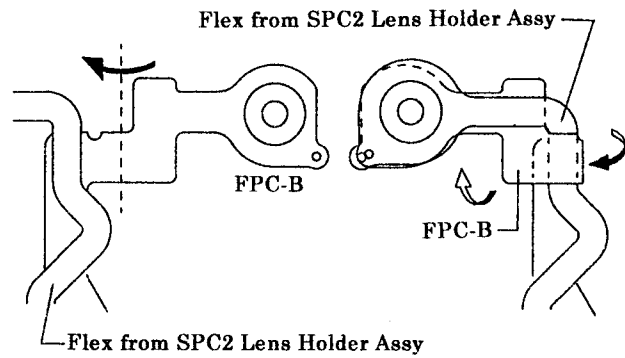
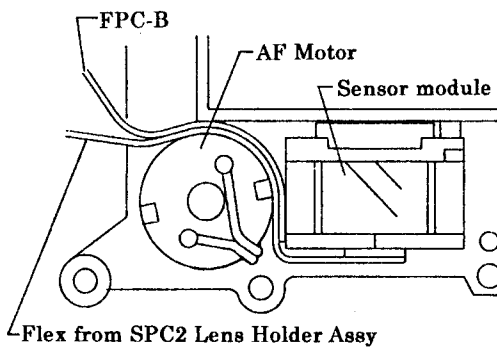
■ Fig. 3

- Wire arrangement



■ Fig. 2

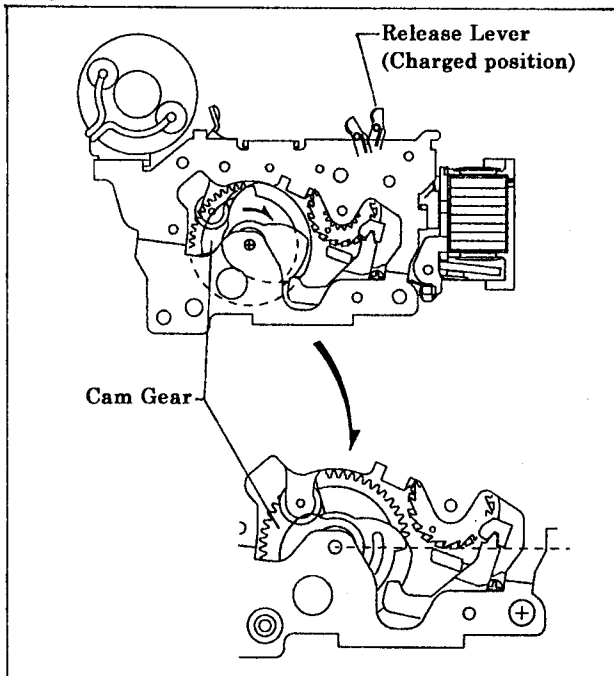
- Arrange FPC-B and flex from SPC2 Lens Holder Assy as shown.



■ Aperture Baseplate Assy Installation

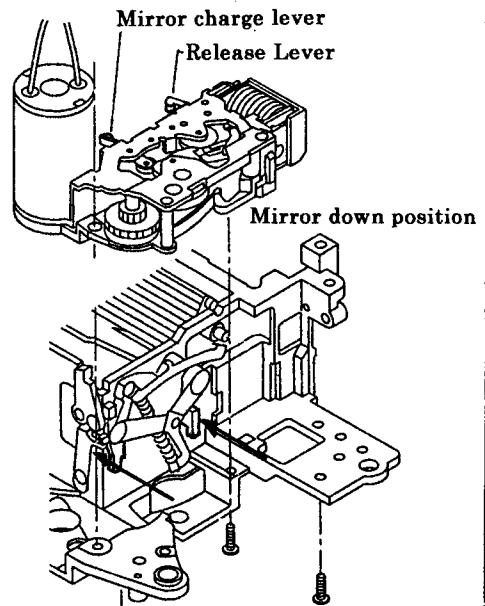
1. Turn Cam gear in the arrow direction until it stops in position of Fig. 4.
2. Check that the release lever is in position as in Fig. 4.
3. Install Aperture Baseplate Assy to Mirror Box as in Fig. 5.

■ Fig. 4



■ Fig. 5

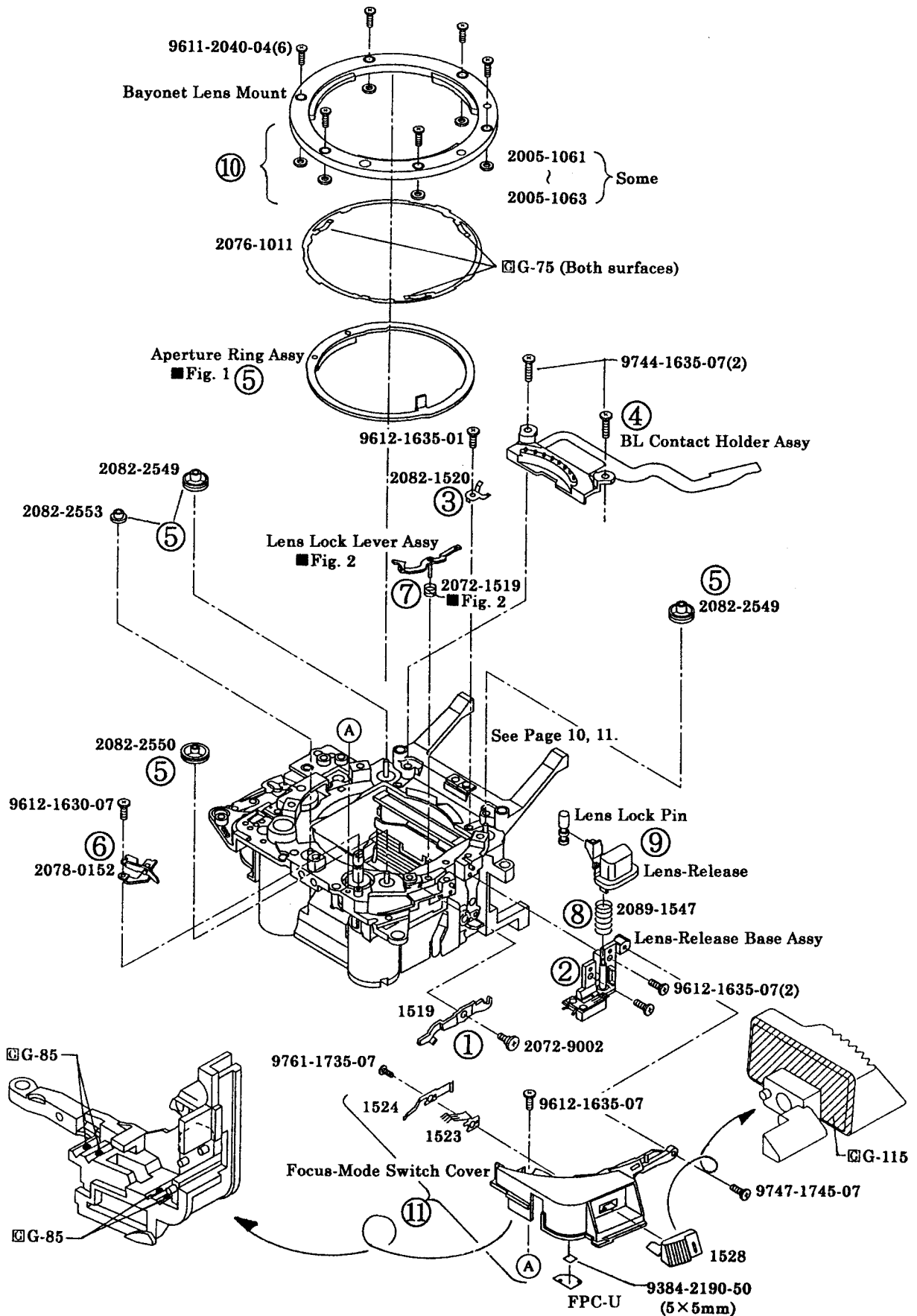
- Levers of Aperture Baseplate Assy should be stopped at the arrow positions.



■ Mirror Box Assy Assembly-II

■ Install in the order of ① to ⑪.

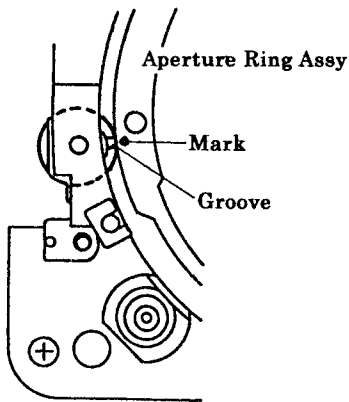
■ After assembly, perform "Mirror Box Operation Check-2" (pg. 17). And perform "AF Coupler Height Adjustment" (pg. 13.)



■ Fig. 1

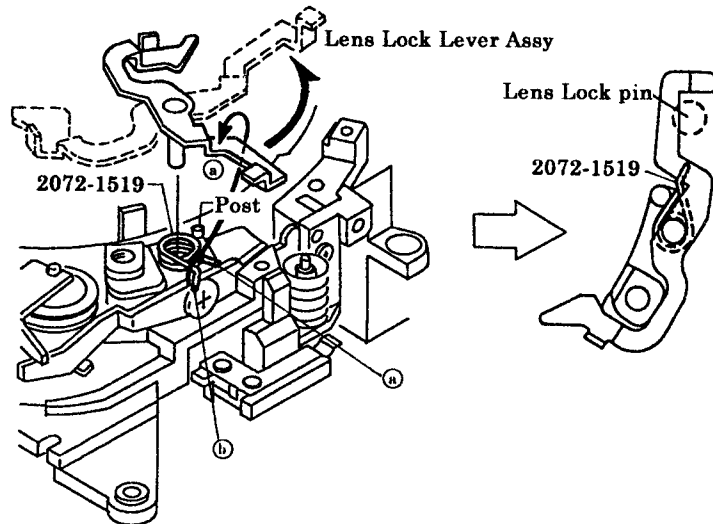
Aperture Ring Assy Installation

- ① Set Aperture Baseplate Assy in position as in "Mirror Operation Check-1-2 (pg. 17)
- ② Install Aperture Ring Assy aligning groove and mark.



■ Fig. 2

- ① Hook 2072-1519 part-Ⓐ to Mirror Box, part-Ⓑ to Lens Lock Lever Assy part-Ⓐ. Then turn it in arrow direction until it reaches broken-lines position.
- ② Install Lens Lock Lever Assy and Lens Lock Pin to hold it.



■ AF Coupler Height Adjustment

■ Check

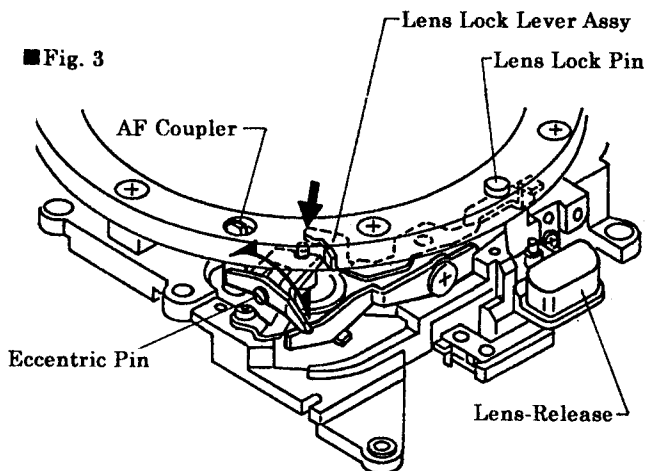
1. Press Lens-Release Button down until Lens-Release Pin levels to the lens mount. Check that AF coupler is not extruded beyond the lens mount.
2. Press Lens Lock Lever Assy in arrow direction (Fig. 3). Check that AF Coupler is extruded within the height as below.

Standard: $1.6\text{mm to }1.8\text{mm}$

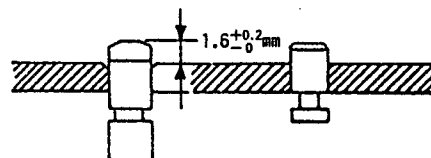
■ Adjustment

1. Adjust Eccentric Pin (Fig. 3) so that AF Coupler suffices both of the above check-1 and -2.

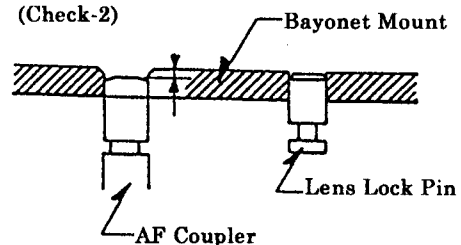
■ Fig. 3



(Check-1)

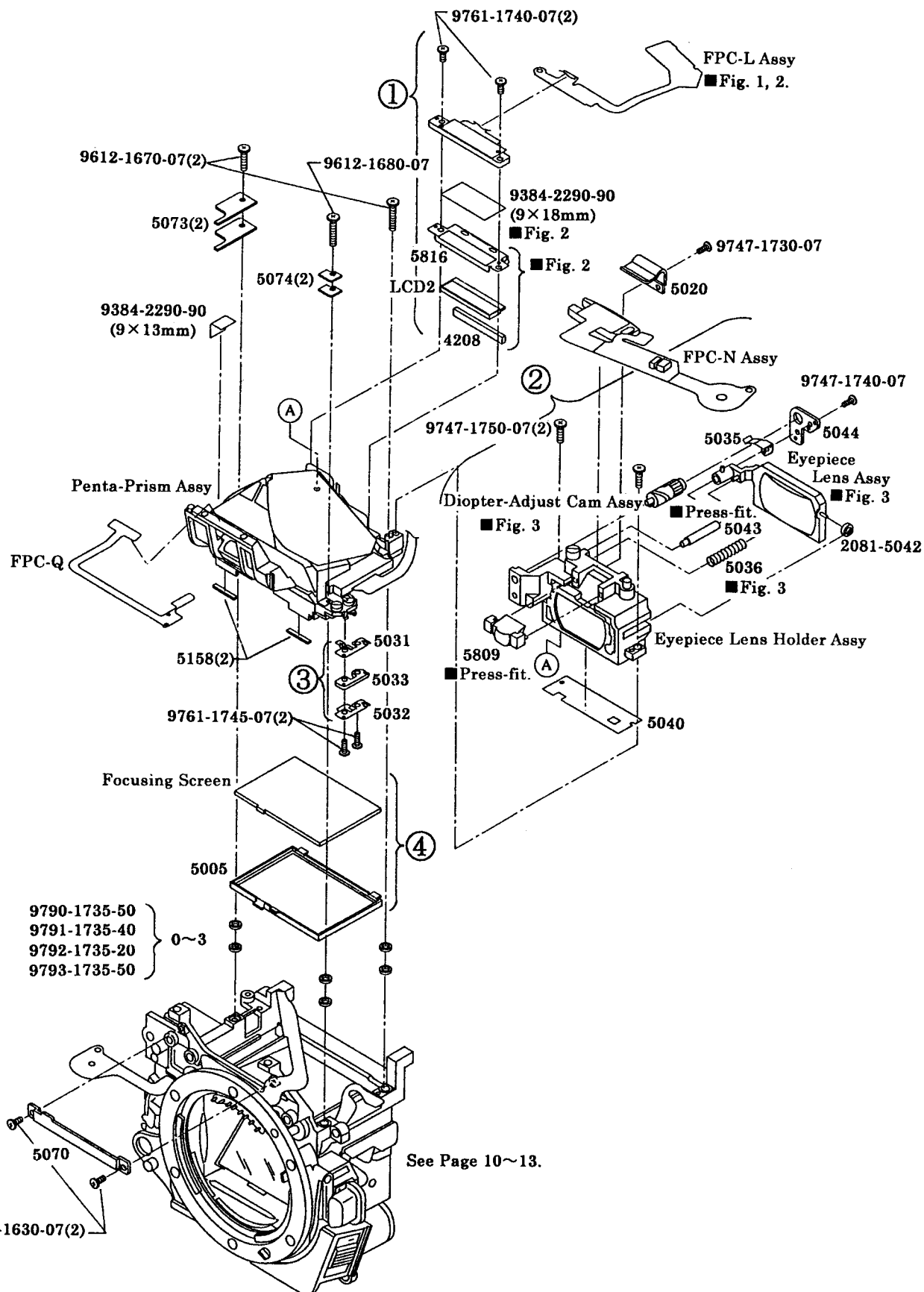


(Check-2)



■ Penta-Prism Assy Installation

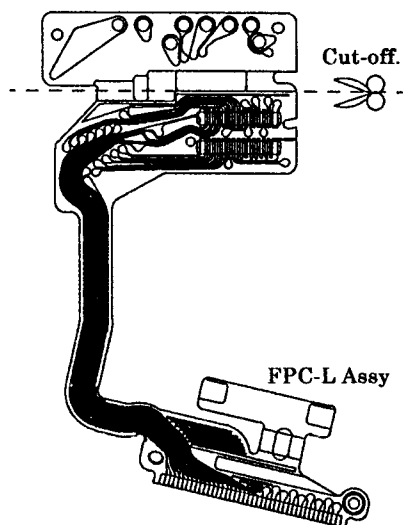
■ Install in the order of ① to ④.



See Page 10~13.

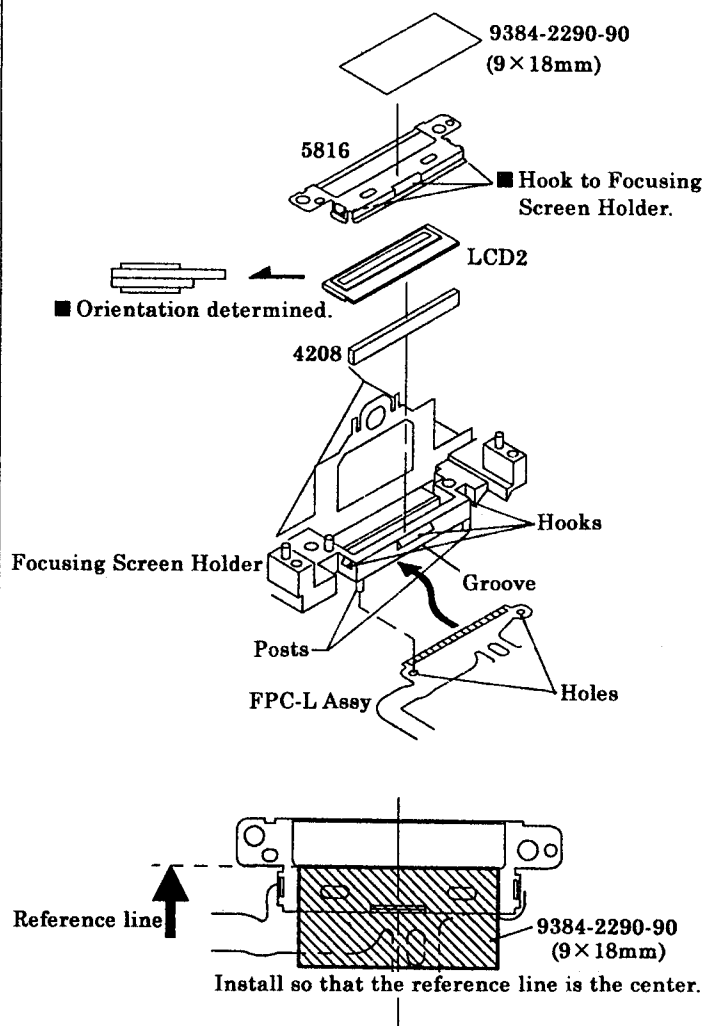
■ Fig. 1

- Cut off the FPC-L Assy before installation.



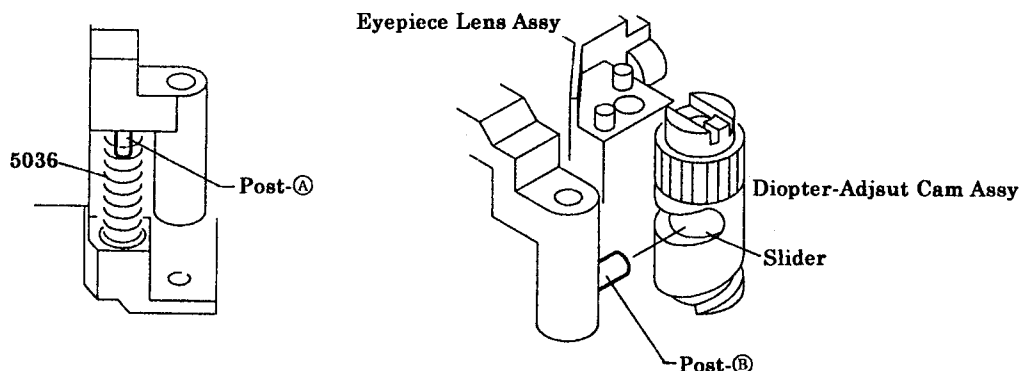
■ Fig. 2

- ① Inserting to groove of Penta-Holder, fit FPC-L Assy to the posts as shown.
- ② Install 4208 and LCD2, then hook 5816 to Penta-Holder.
- ③ Install 9384-2290-90 to shaded area.



■ Fig. 3

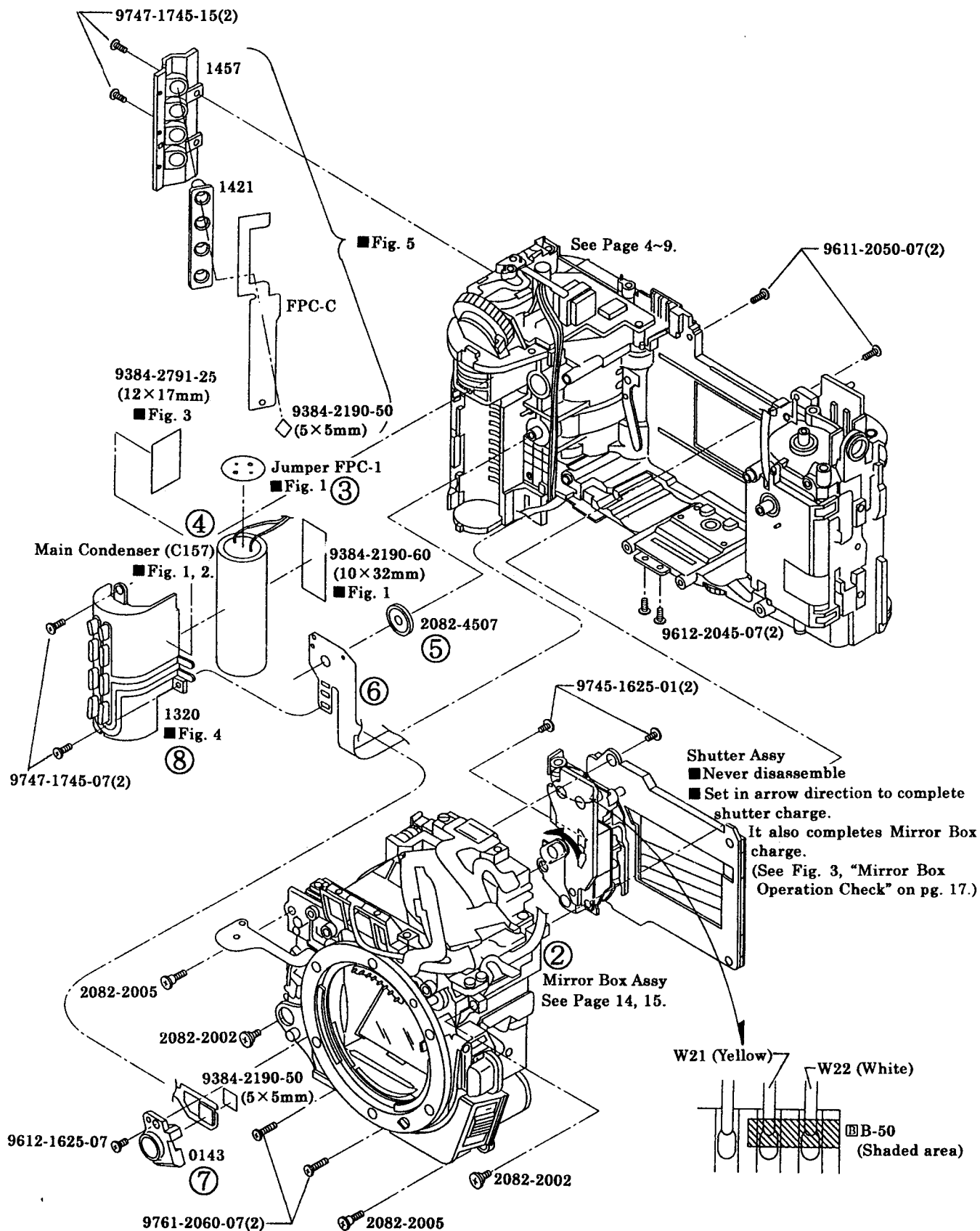
- Install Eyepiece Lens Assy to Diopter-Adjust Cam Assy fitting the post-**(B)** to the slider. Be sure to fit 5036 to Eyepiece Lens Assy's post-**(A)**.



4 Shutter Assy, Mirror Box Assy, Main Condenser Installation

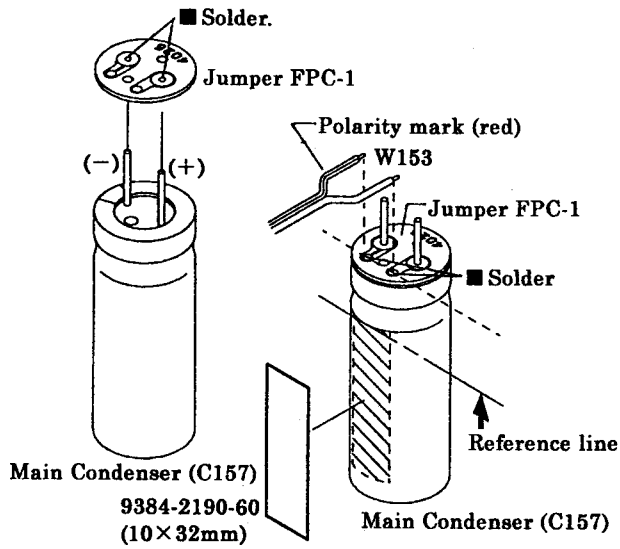
■ Install in the order of ① to ⑧.

■ After installing ① and ②, perform "Mirror Box Operation Check-3 (pg.17)."



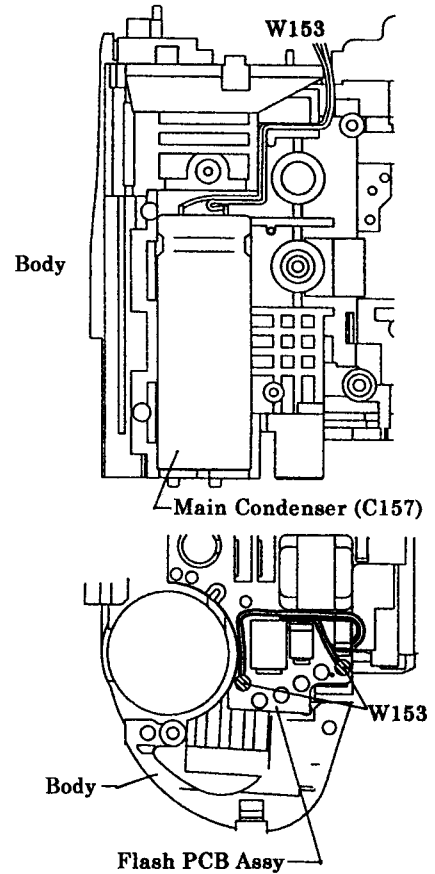
■ Fig. 1

- ① Solder Jumper FPC-1 to Main Condenser
- ② Solder W153 to Jumper FPC-1.
- ③ Affix 9384-2190-60 in position.



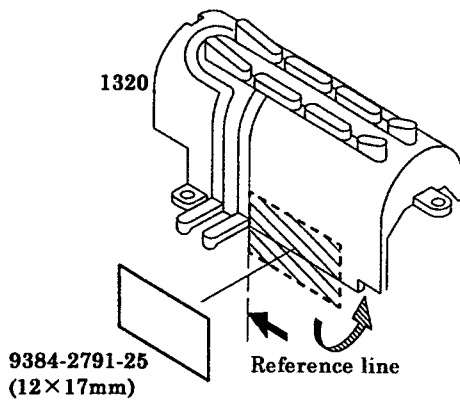
■ Fig. 2

- Affix Main Condenser (C157) to body, then arrange W153 as shown.



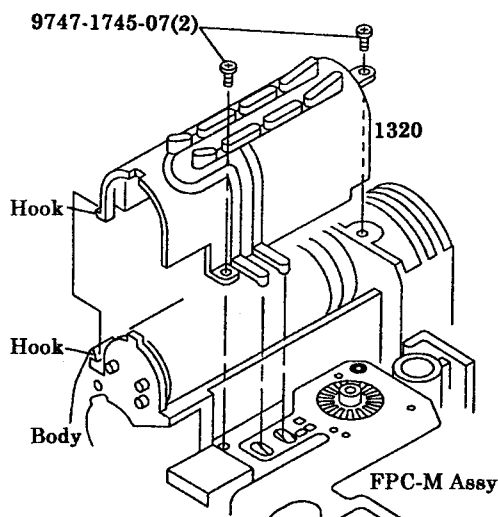
■ Fig. 3

- Install 9384-2791-25 in position.



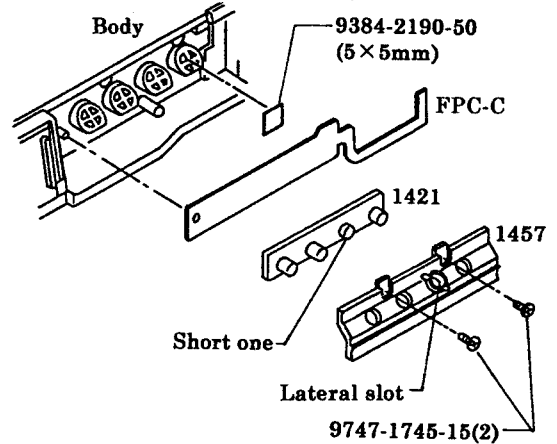
■ Fig. 4

- Hook 1320 to body.



■ Fig. 5

- ① Install 9384-2190-50 to the shaded area and affix FPC-C.
- ② Install 1421 and 1457 as shown.



■ Mirror Box Operation Check

■ Check-1

After "Mirror Box Assembly-I" (pg. 10-11)

1. Press SL-2 at part-A in arrow direction (Fig. 1). Mirror goes up.
2. Press SL-2 at part-b in arrow direction (Fig. 1). Aperture-transmitting gear stops in position as in Fig. 2.
3. Insert jig #2082-2504-75 into hole-c (Fig. 2), turn it clockwise until Cam-gear makes one turn (Fig. 3).
Aperture-transmitting gear and mirror are reset.

■ Check-2

After "Mirror Box Assembly-II" (pg. 12-13)

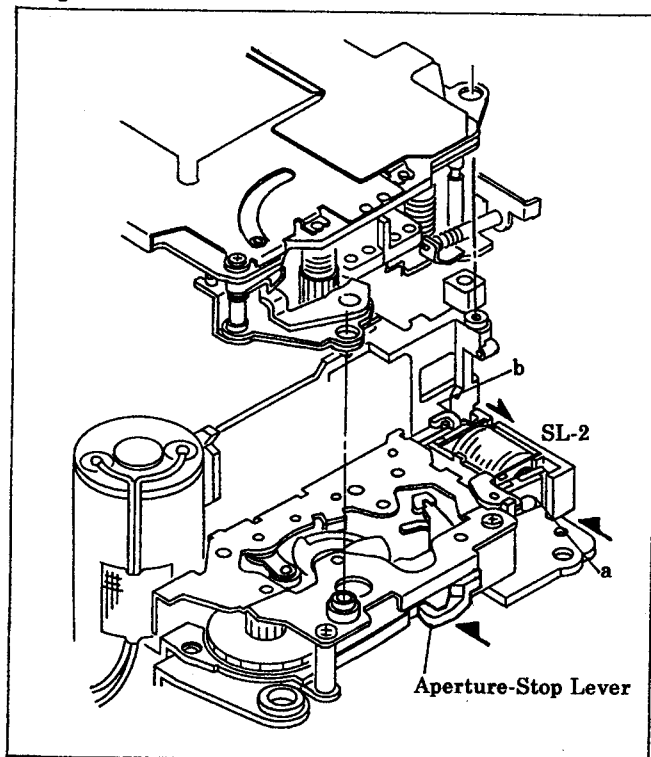
1. Insert jig #2082-2504-75 into hole-c (Fig. 2), turn it clockwise until Cam-gear makes one turn (Fig. 3).
Aperture Ring Assy and mirror are reset.
2. Press SL-2 at part-a in the arrow direction (Fig. 1). Mirror goes up.
3. Press SL-2 at part-b in the arrow direction (Fig. 1). Aperture Ring Set stops down. (Cut aligns marking as Fig. 2.)
4. Repeat step-1.

■ Check-3

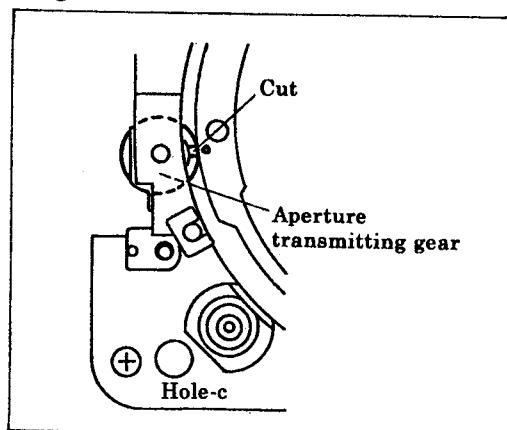
After "Shutter Assy Installation" (pg. 16)

1. Press Aperture-stop lever in arrow direction (Fig. 1). Aperture Ring Assy stops down.
2. Press SL-2 at part-a in arrow direction (Fig. 1). Mirror goes up and shutter runs.
3. Insert jig #2082-2504-75 into hole-c (Fig. 2), and turn it clockwise until Cam-gear makes one turn (Fig. 3). Aperture Ring Set, Mirror and Shutter are reset.

■ Fig. 1

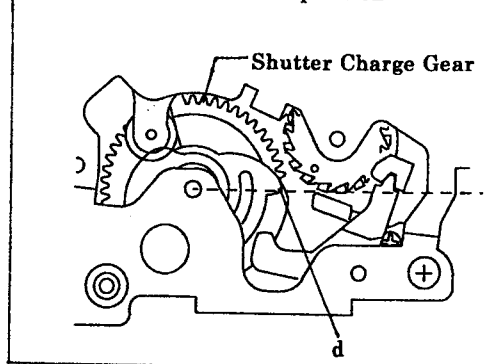


■ Fig. 2

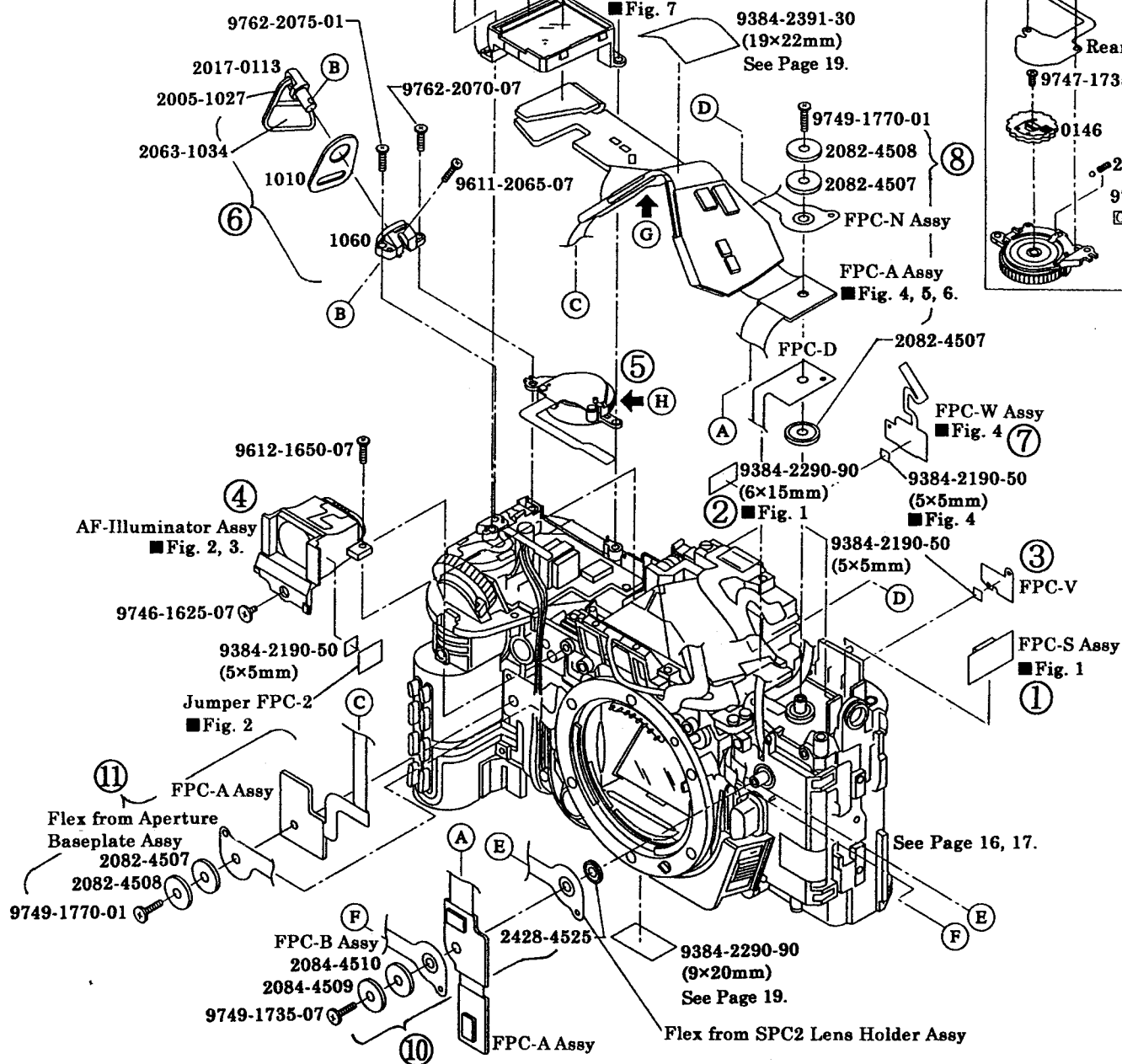
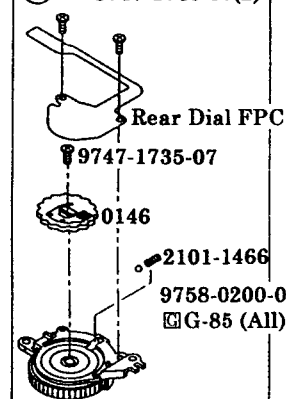
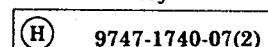
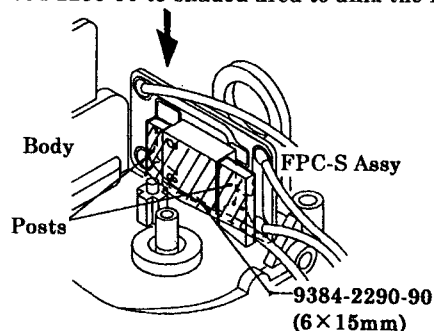
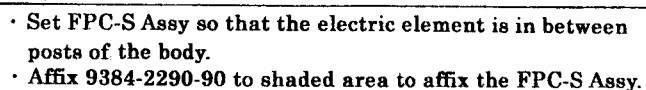
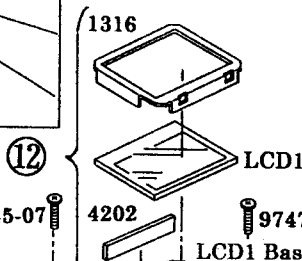


■ Fig. 3

■ Charged position:
Gear-d is in horizontal position

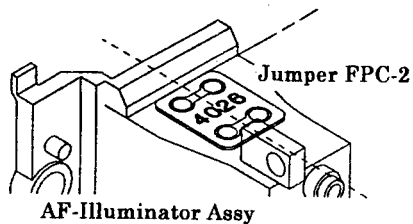


- Install in the order from ① to ⑫.
- Arrange wires referring to page 19.



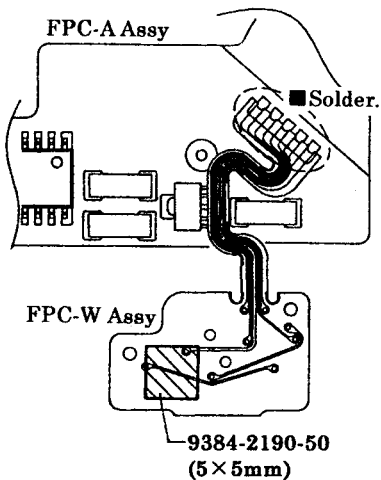
■ Fig. 2

- Affix 9384-2190-50 to affix Jumper FPC-2.



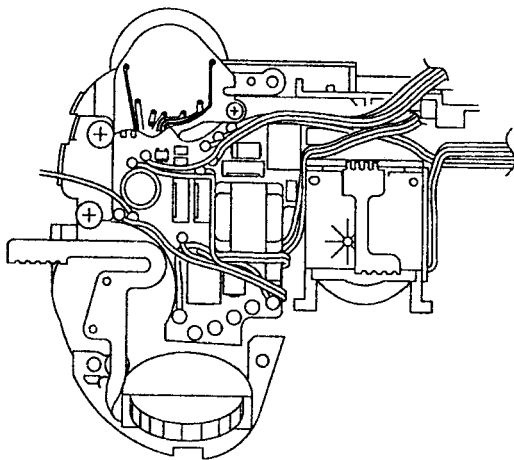
■ Fig. 4

- Before installing FPC-A Assy, solder FPC-W Assy to FPC-A Assy.
- Install 9384-2190-50 to shaded area.



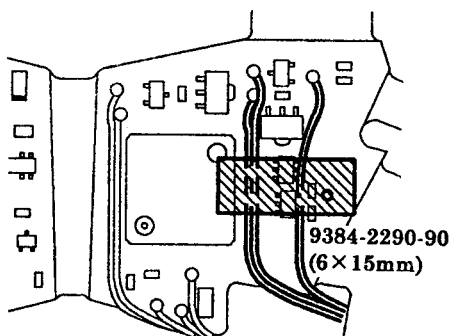
■ Fig. 3

- Solder enamel wire from FMg and arrange all other wires.

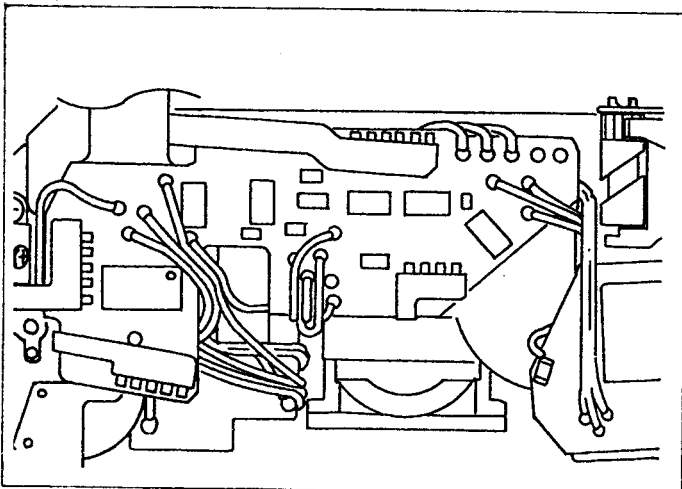


■ Fig. 5

- Arrange wires and affix 9384-2290-90 to shaded area.

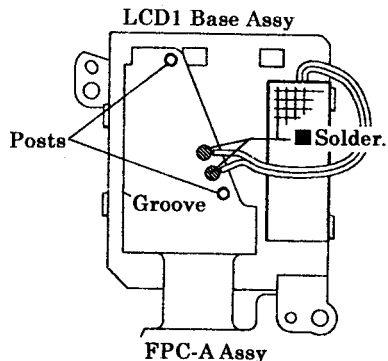


■ Fig. 6

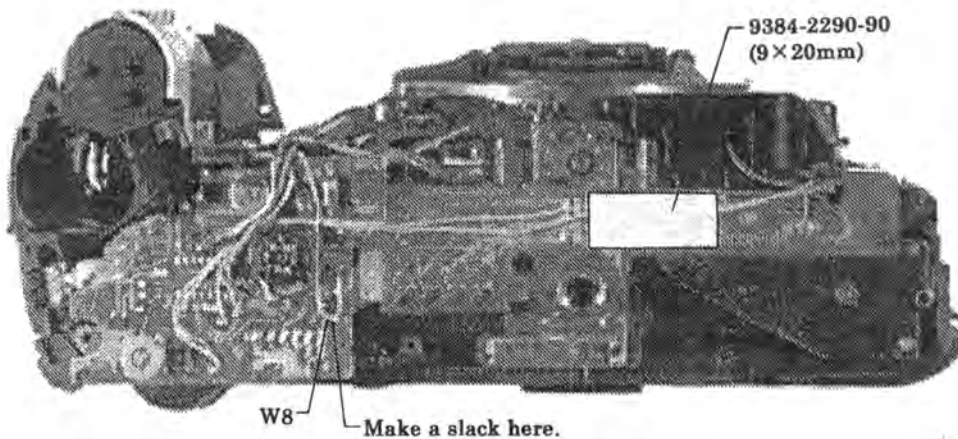
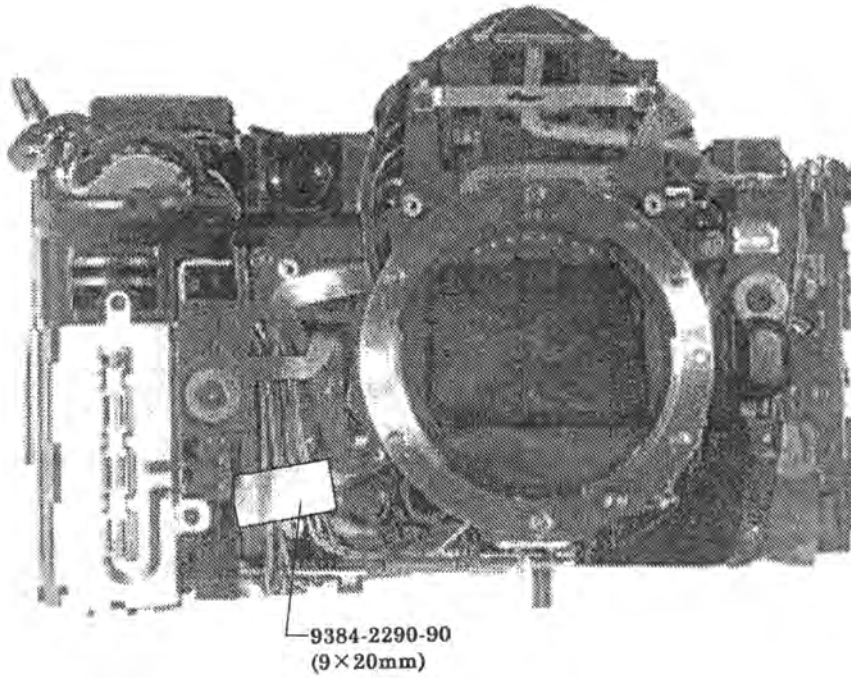
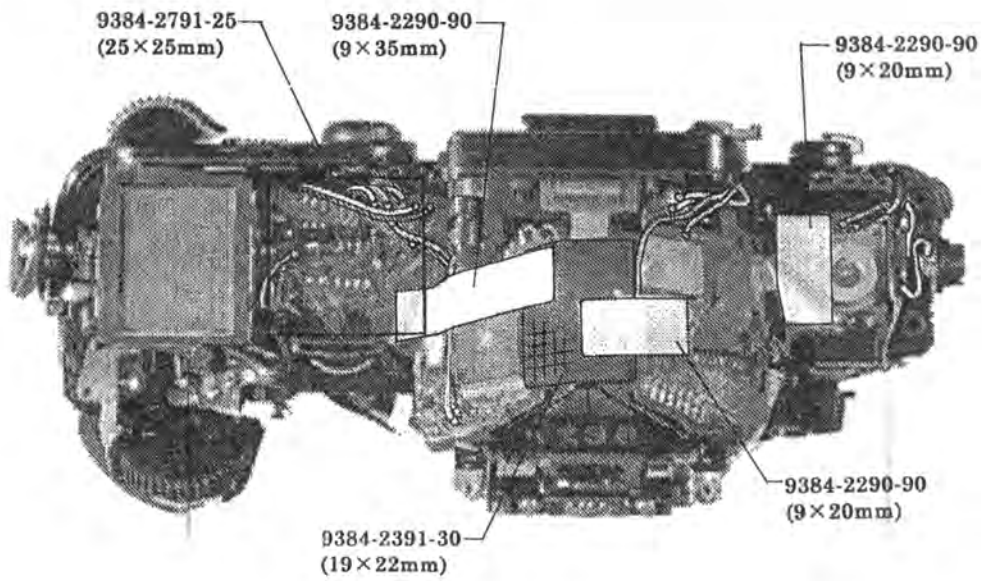


■ Fig. 7

- Install FPC-A Assy to LCD1 Base Assy inserting to groove and fitting to posts.



■ Wires arrangement

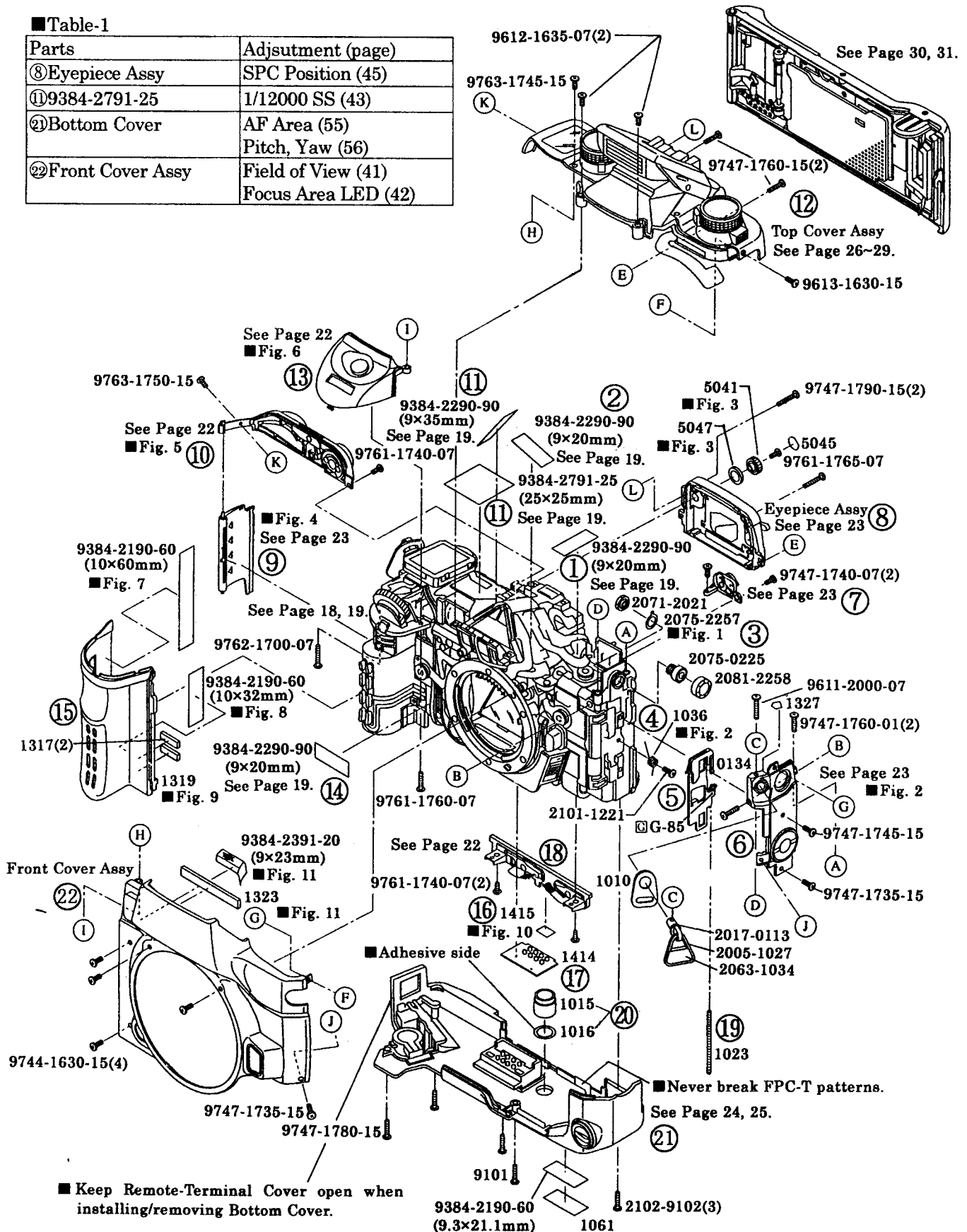


6 External parts Installation

- Be sure to discharge Main Condenser before disassembly. (pg.2)
- Install in the order of ① to ②. Several adjustments should have been completed before installing certain parts. See Table-1 below.
- Before installing Front Cover Assy, be sure to open main Sw. circuit on FPC-A, or cut the pattern on FPC-V. (pg. 3)

■ Table-1

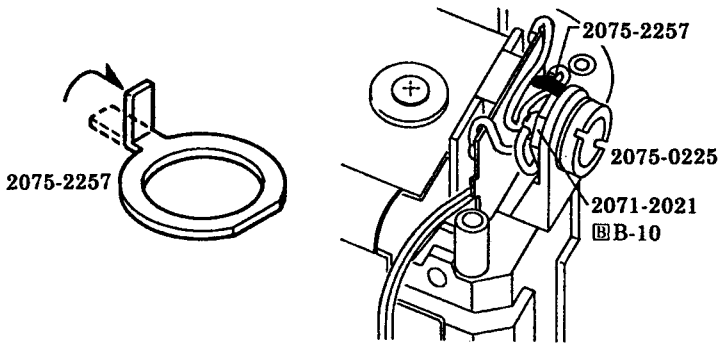
Parts	Adjustment (page)
⑧ Eyepiece Assy	SPC Position (45)
⑪ 9384-2791-25	1/12000 SS (43)
②① Bottom Cover	AF Area (55) Pitch, Yaw (56)
②② Front Cover Assy	Field of View (41) Focus Area LED (42)



- Keep Remote-Terminal Cover open when installing/removing Bottom Cover.

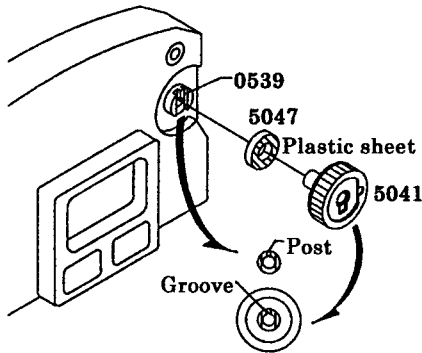
■ Fig. 1

- Upright 2075-2257 as shown. And install it in position.
- Arrange wires.



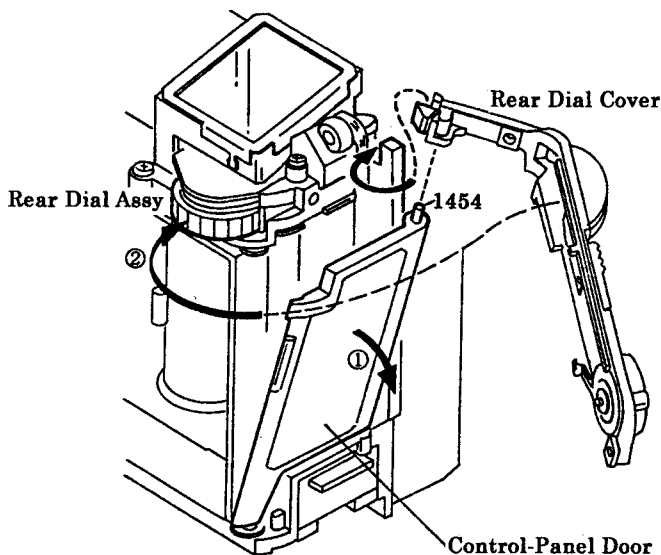
■ Fig. 3

- Install 5041 to 0539 fitting groove to post.



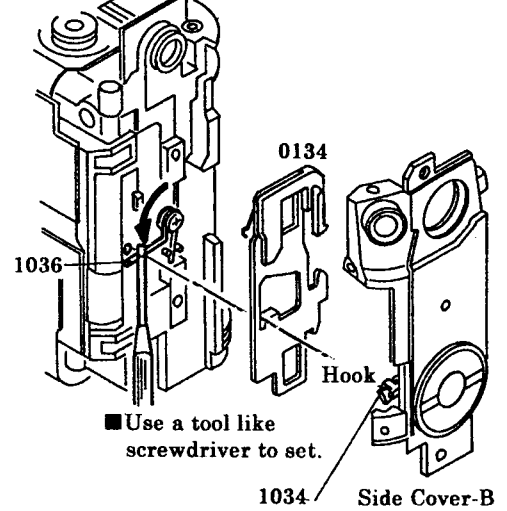
■ Fig. 5

- ① Holding Control-Panel Door inclined in arrow direction, install Rear Dial Cover to 1454.
- ② Turn Rear Dial Cover in arrow direction to install to body and Rear Dial Assy.
- ③ Arrange wires.



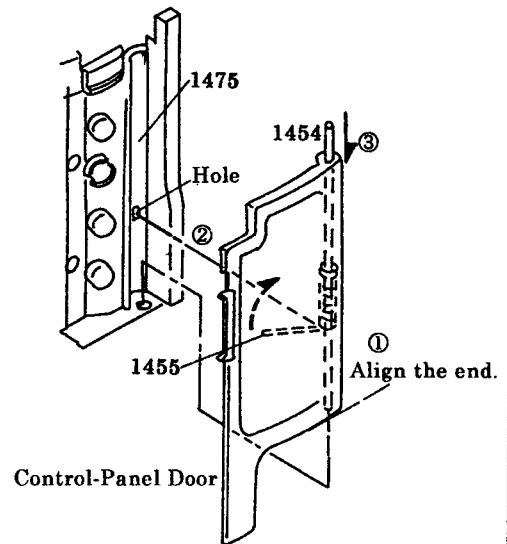
■ Fig. 2

- Set 1036 to charged position with a screwdriver.
- Then install 0134 and Side cover-B.
- Hook 1036 to 1034.

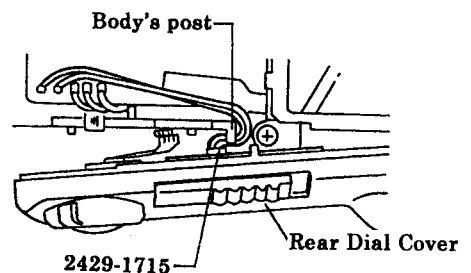


■ Fig. 4

- ① Install 1454 so that its end aligns with bottom of Control Panel Door
- ② Holding 1455 in arrow direction, insert it to the 1475's hole so that Control-Panel Door is installed.
- ③ Push 1454 in arrow direction until it stops.

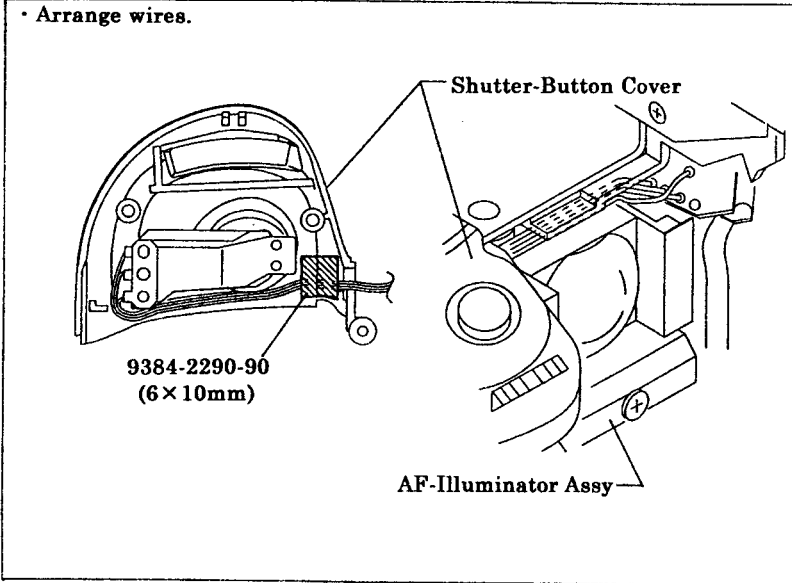


- ③ ■ Hook wires to the body's post.



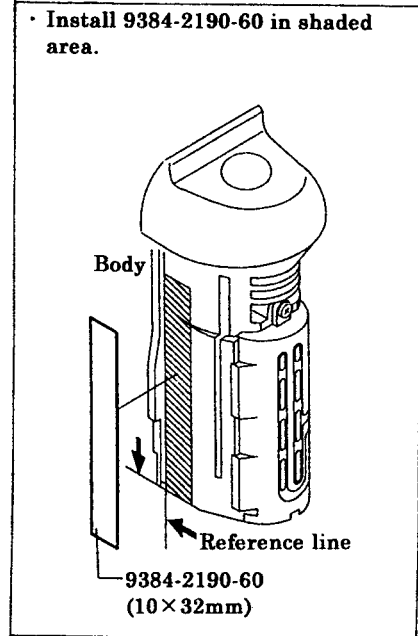
■ Fig. 6

- Arrange wires.



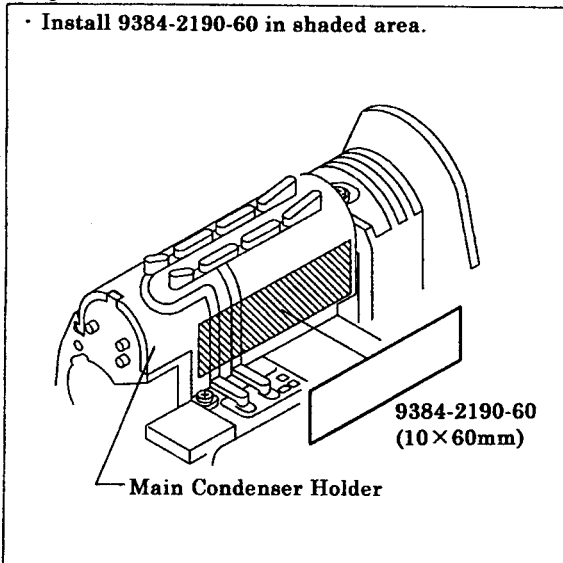
■ Fig. 7

- Install 9384-2190-60 in shaded area.



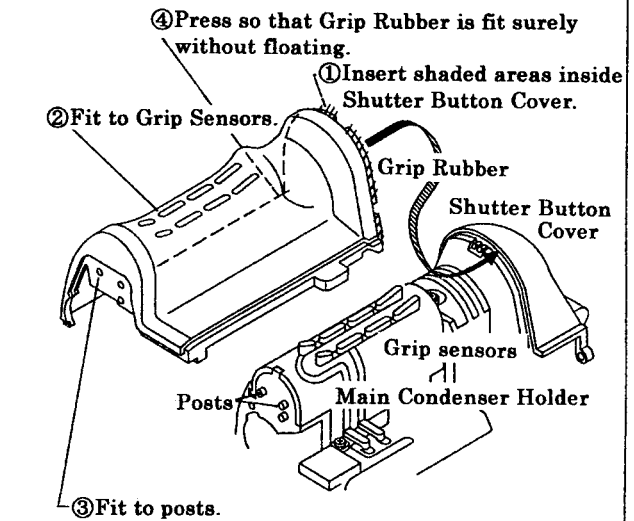
■ Fig. 8

- Install 9384-2190-60 in shaded area.



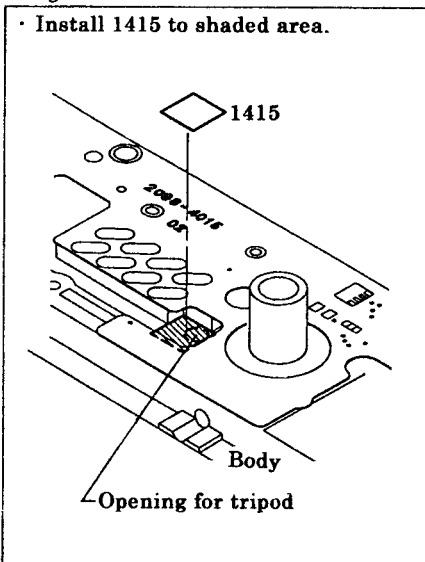
■ Fig. 9

- Install Grip Rubber following steps from ① to ④.



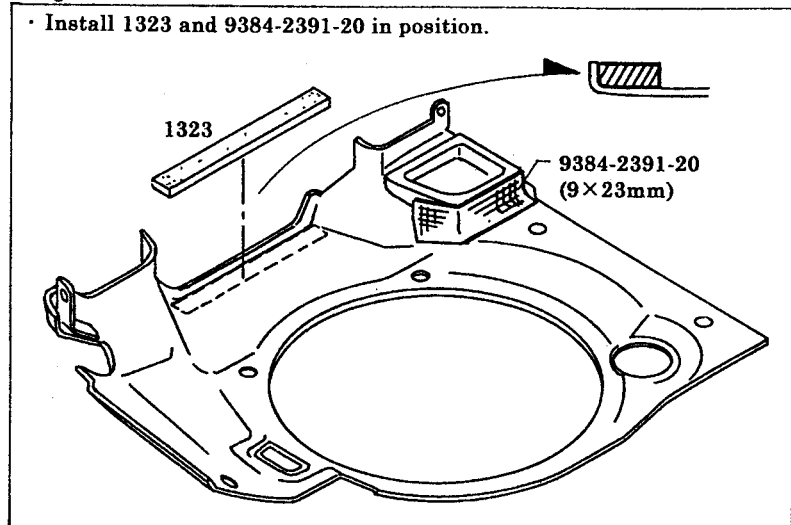
■ Fig. 10

- Install 1415 to shaded area.

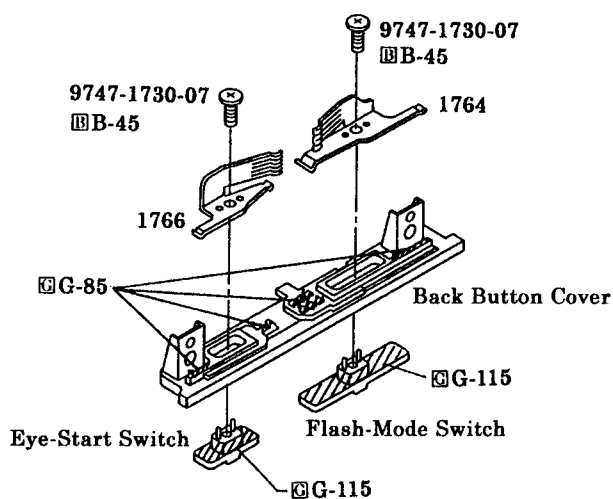
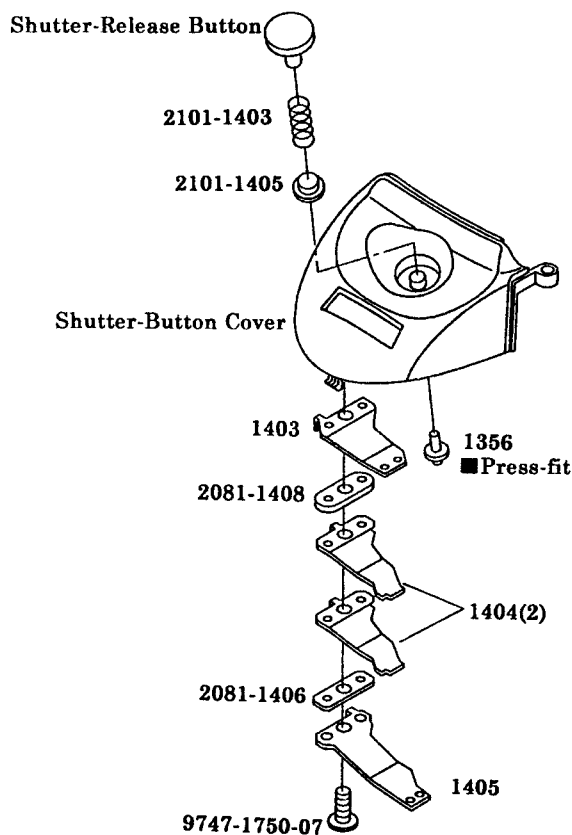
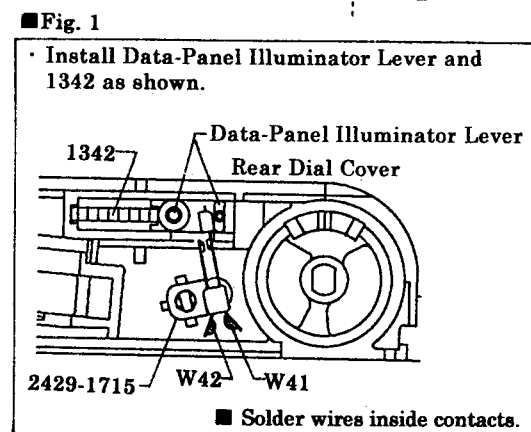
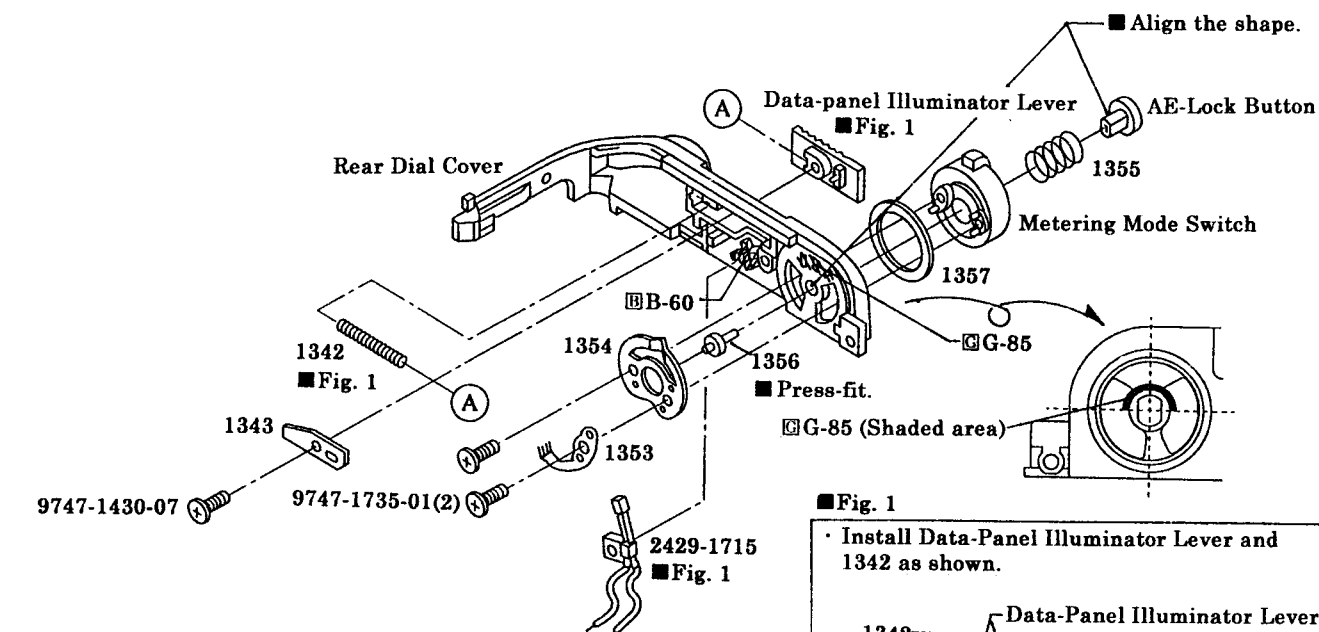


■ Fig. 11

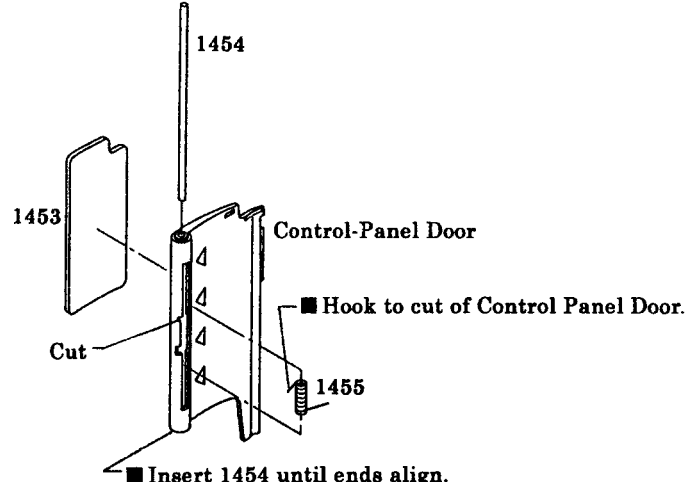
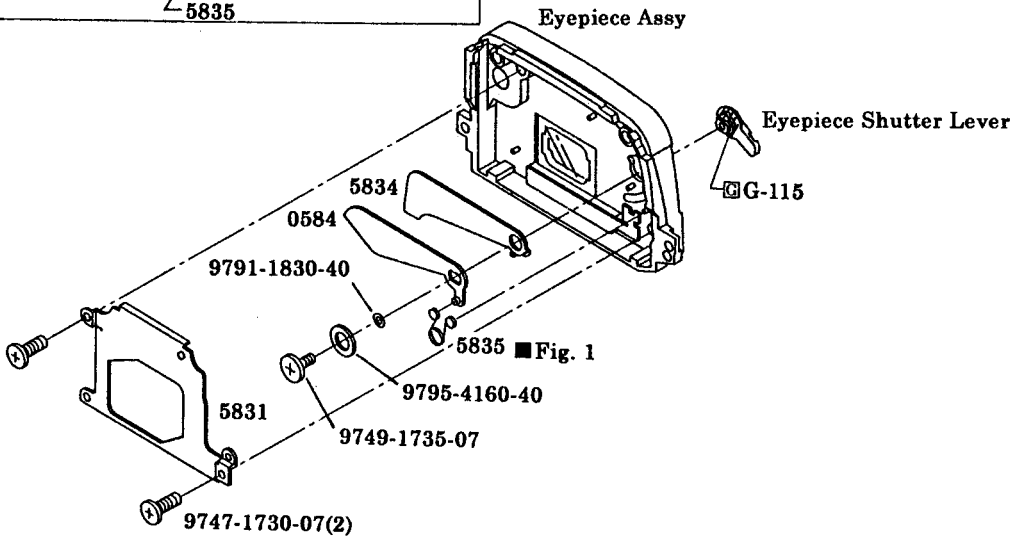
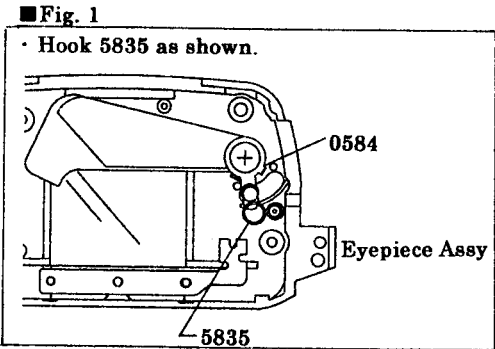
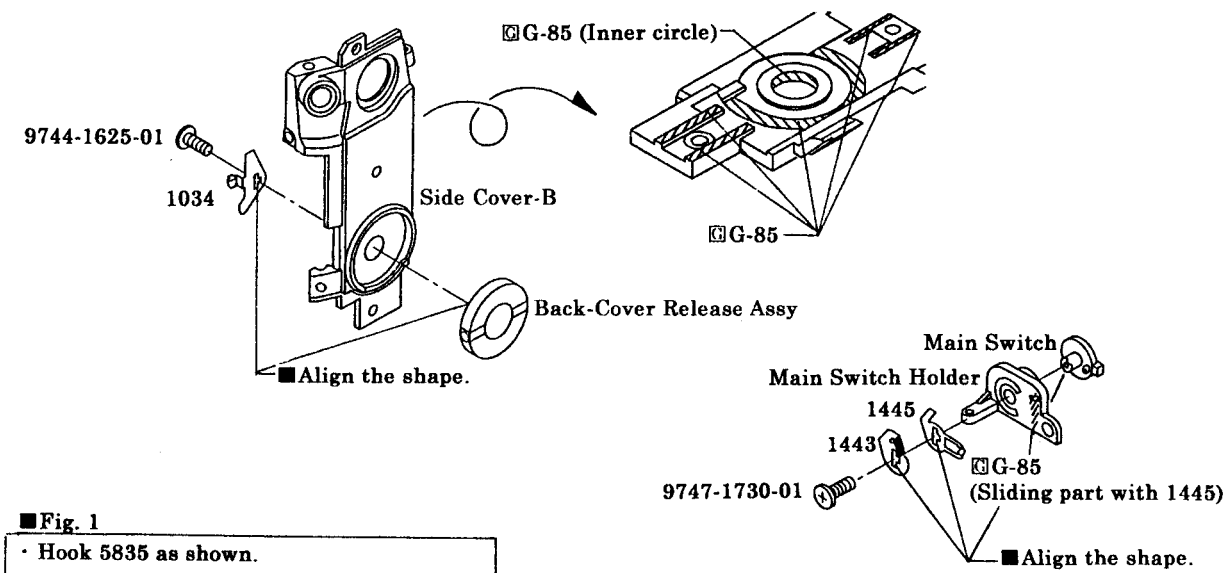
- Install 1323 and 9384-2391-20 in position.



Rear Dial Cover, Shutter Button Cover, Back Button Cover Assembly

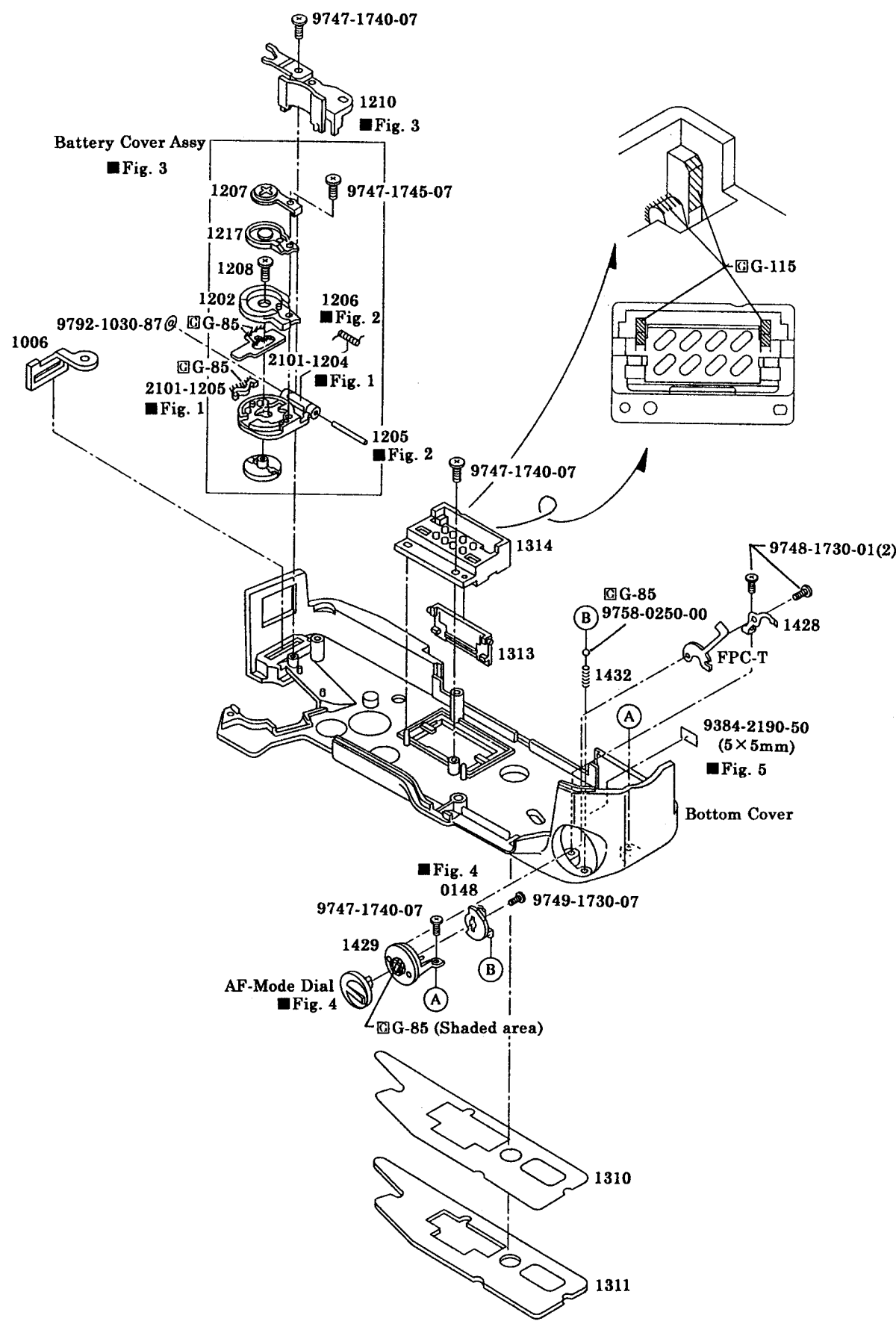


Side Cover-B, Main Switch Holder, Eyepiece, Control-Panel Door Assembly



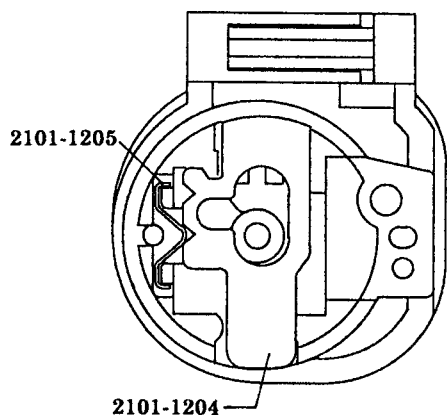
Bottom Cover Assembly

REPAIR
GUIDE



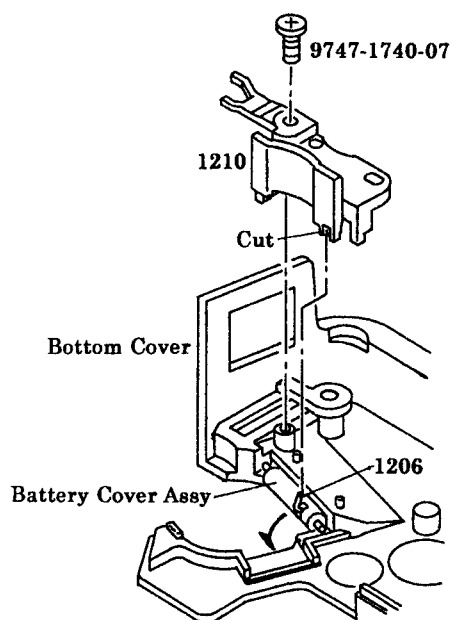
■ Fig. 1

- Hook 2101-1204 and 2101-1205 as shown.



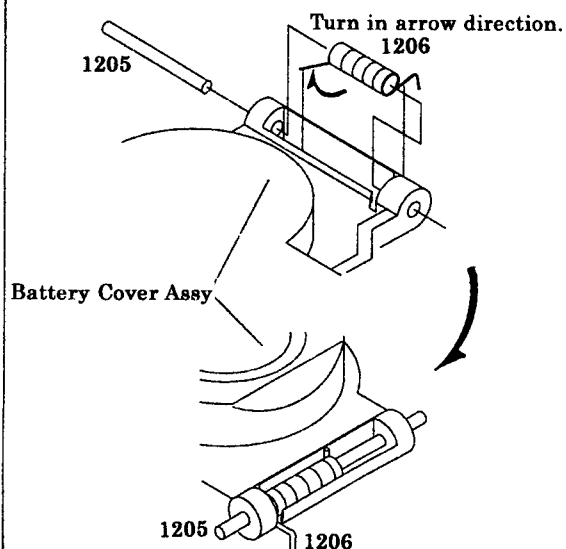
■ Fig. 3

- Holding Battery Cover Assy in arrow direction, hook 1206 to 1210 cut.



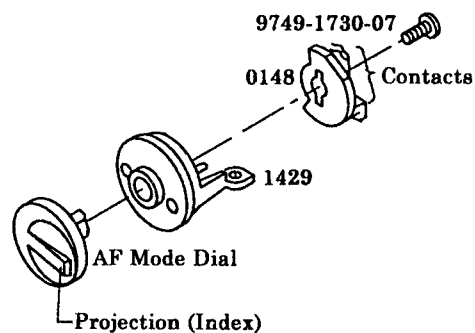
■ Fig. 2

- Turn 1206 in arrow direction to install.



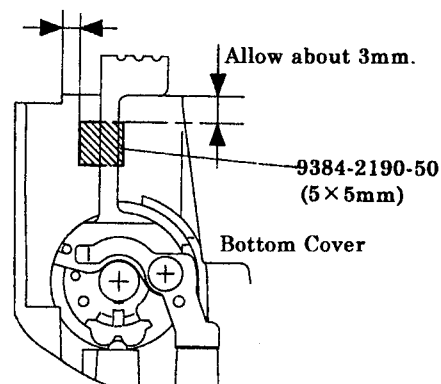
■ Fig. 4

- Assemble these parts so that contacts of 0148 is above the projection (or index) of the AF Mode Dial.

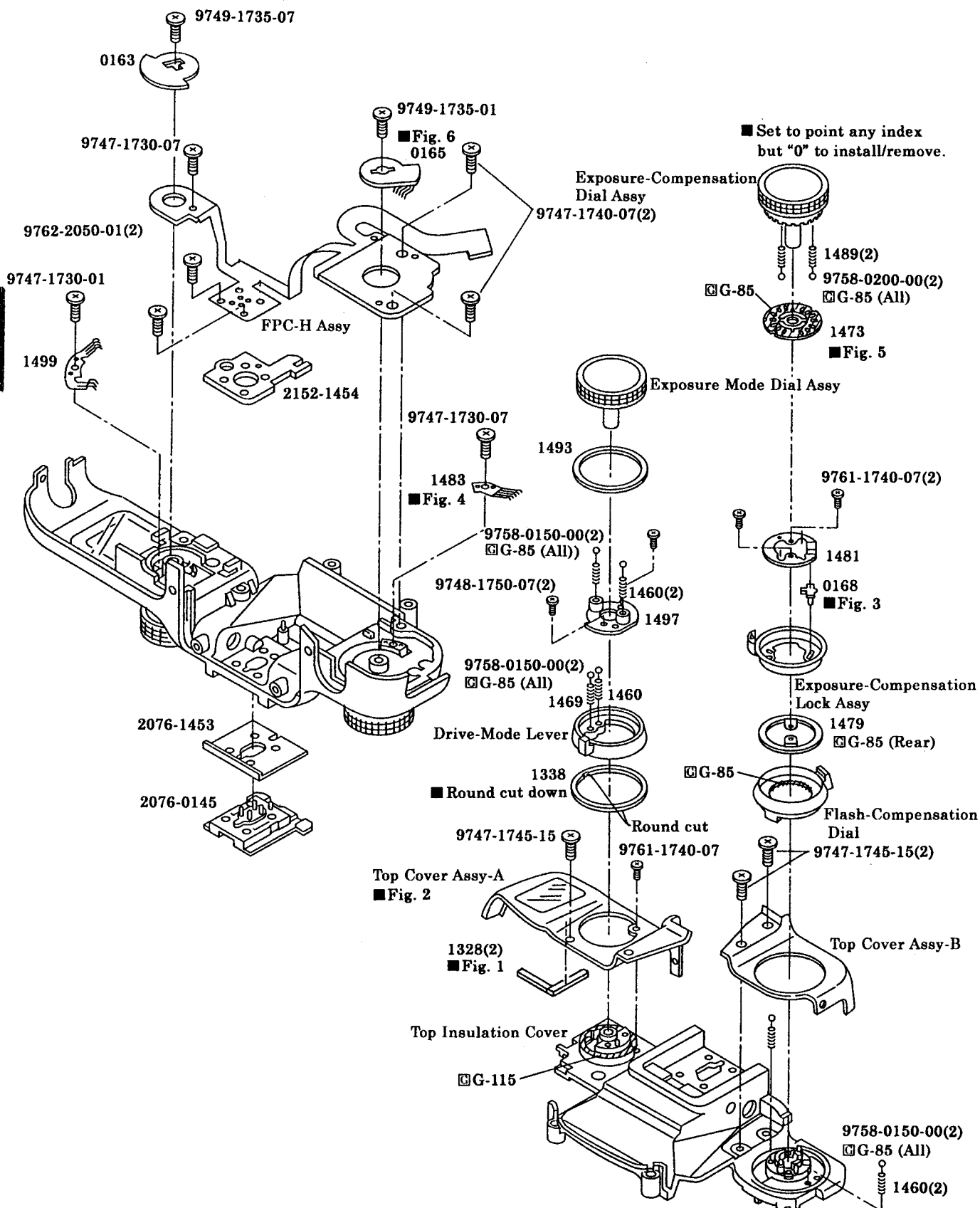


■ Fig. 5

- Install 9384-2190-50 to shaded area to affix FPC-T. する。

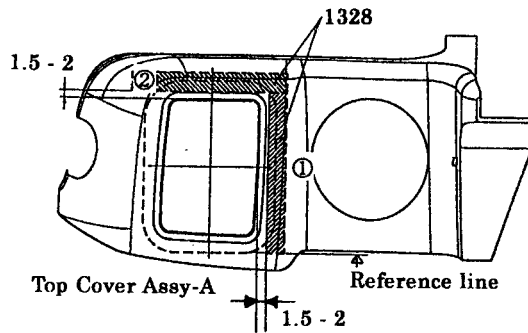


Top Cover Assembly-I



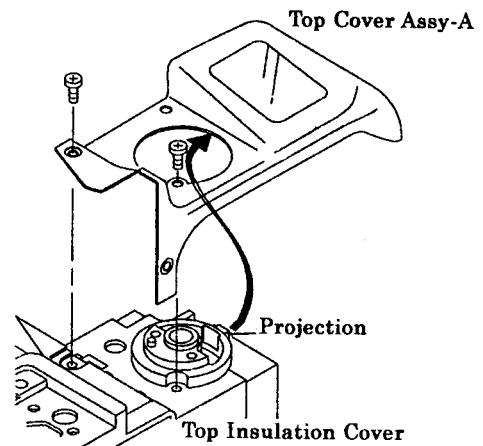
■ Fig. 1

- Install 1328 in the order of ① and ②.



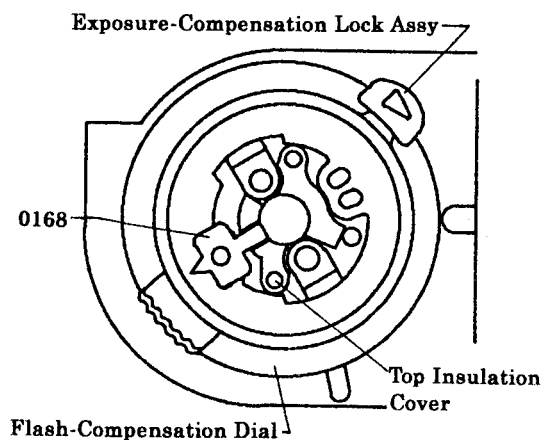
■ Fig. 2

- Install Top Cover Assy-A so that it is beneath projection of Top Insulation Cover.



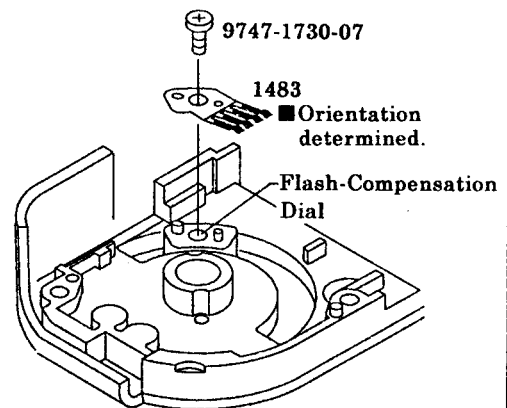
■ Fig. 3

- Install 0168 in position.



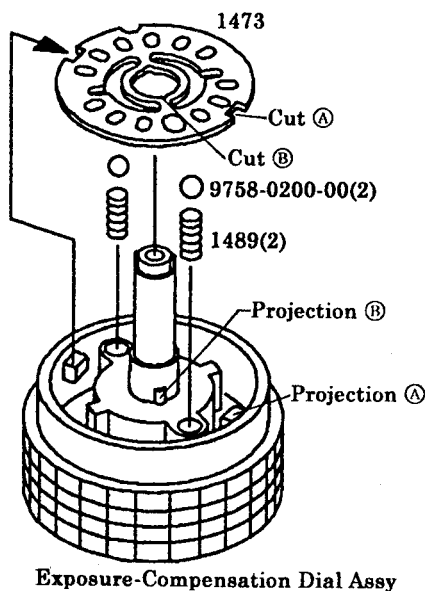
■ Fig. 4

- Install 1483 to Flash-Compensation Dial in the designated orientation.



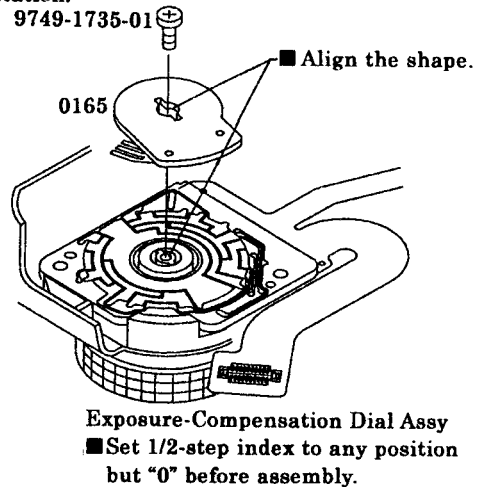
■ Fig. 5

- Install 1473 to Exposure-Compensation Dial Assy aligning ① and ②.
Then turn 1473 for 2 or 3 clicks in either direction.



■ Fig. 6

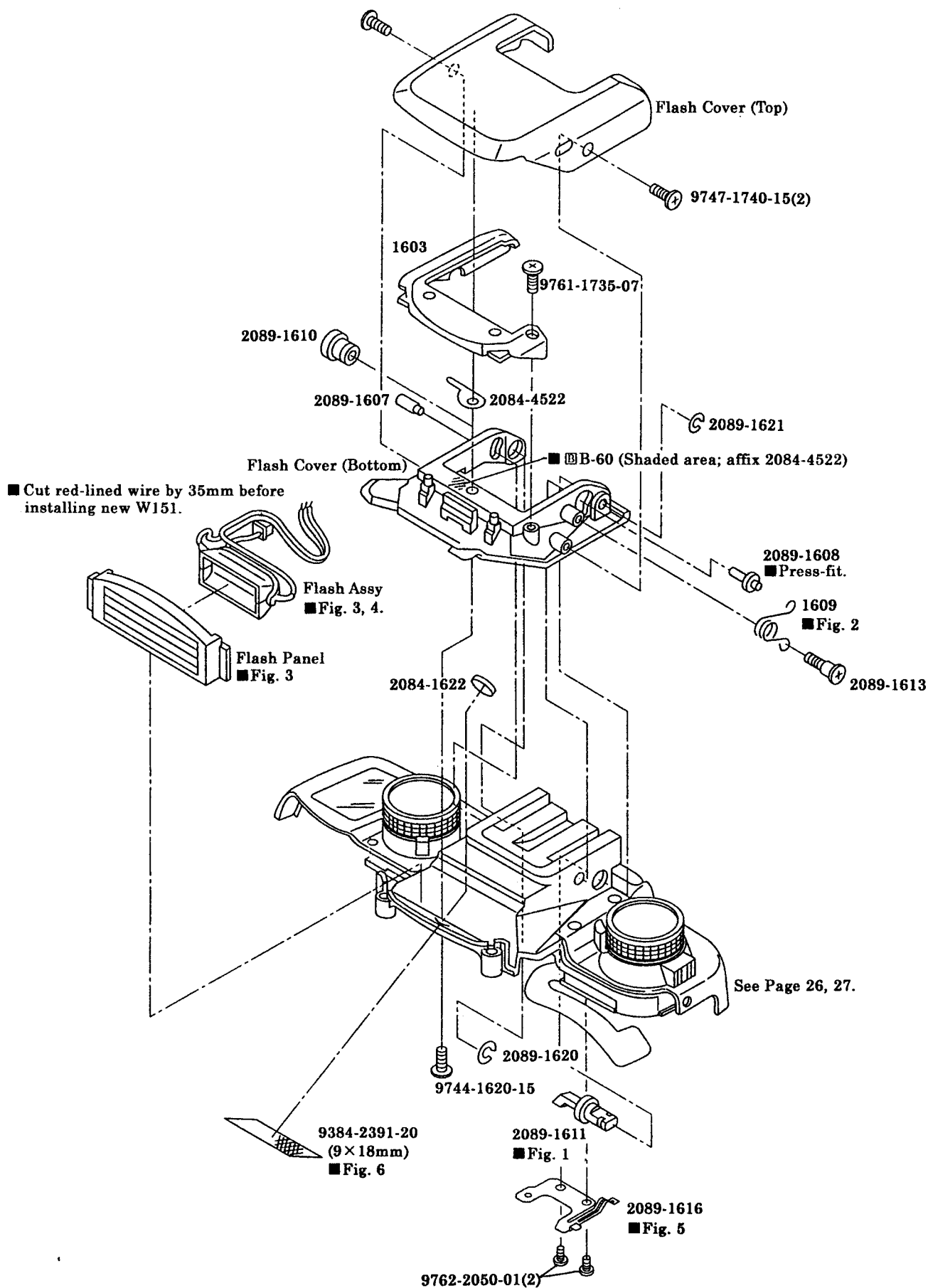
- Set Exposure-Compensation Dial Assy in position as in figure, then install 0165 in the designated orientation.



Exposure-Compensation Dial Assy

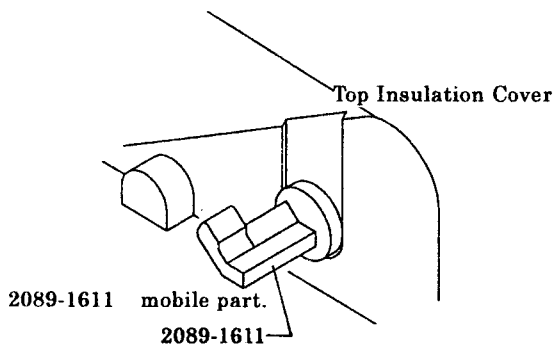
- Set 1/2-step index to any position but "0" before assembly.

■ Top Cover Assy Assembly-II



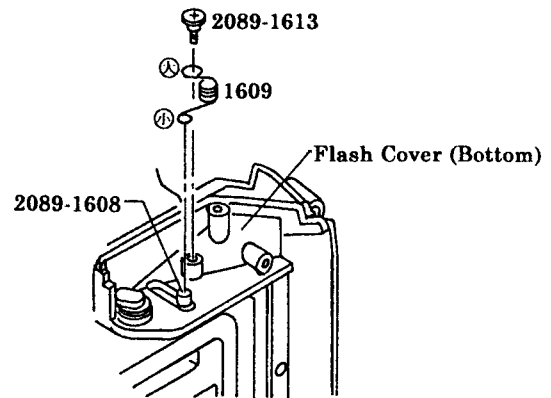
■ Fig. 1

- Install 2089-1611 so that mobile part of 2089-1616 is in position as shown.



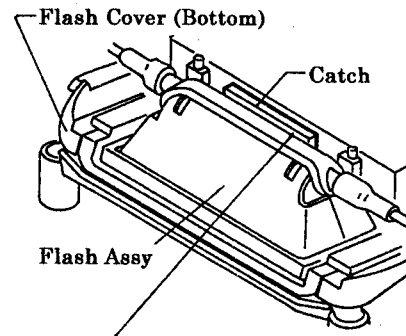
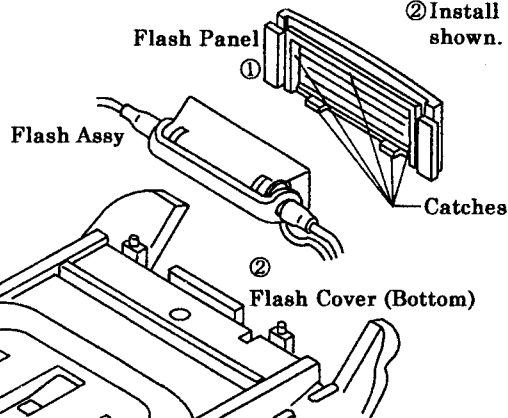
■ Fig. 2

- Hook 1609 as shown.



■ Fig. 3

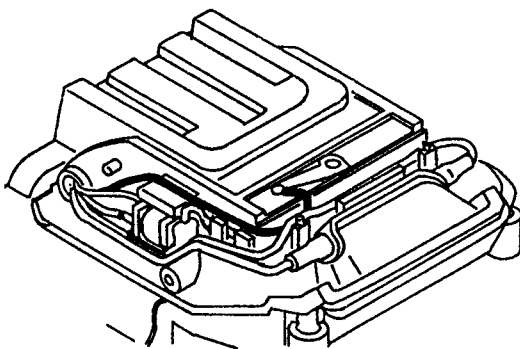
- Fit Flash Assy to Flash Panel's catches.
- Install Flash Assy and Flash Panel to Flash Cover (Bottom) as shown.



■ No clearance allowed between catches and Flash Assy.

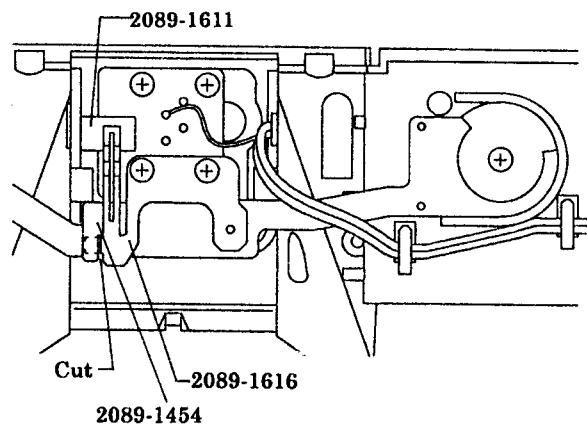
■ Fig. 4

- Arrange wires as shown.



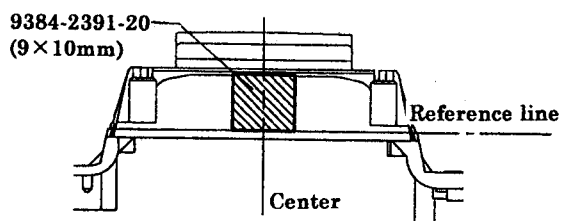
■ Fig. 5

- Insert 2089-1616 to cut of 2089-1454.
- Arrange wires as shown.

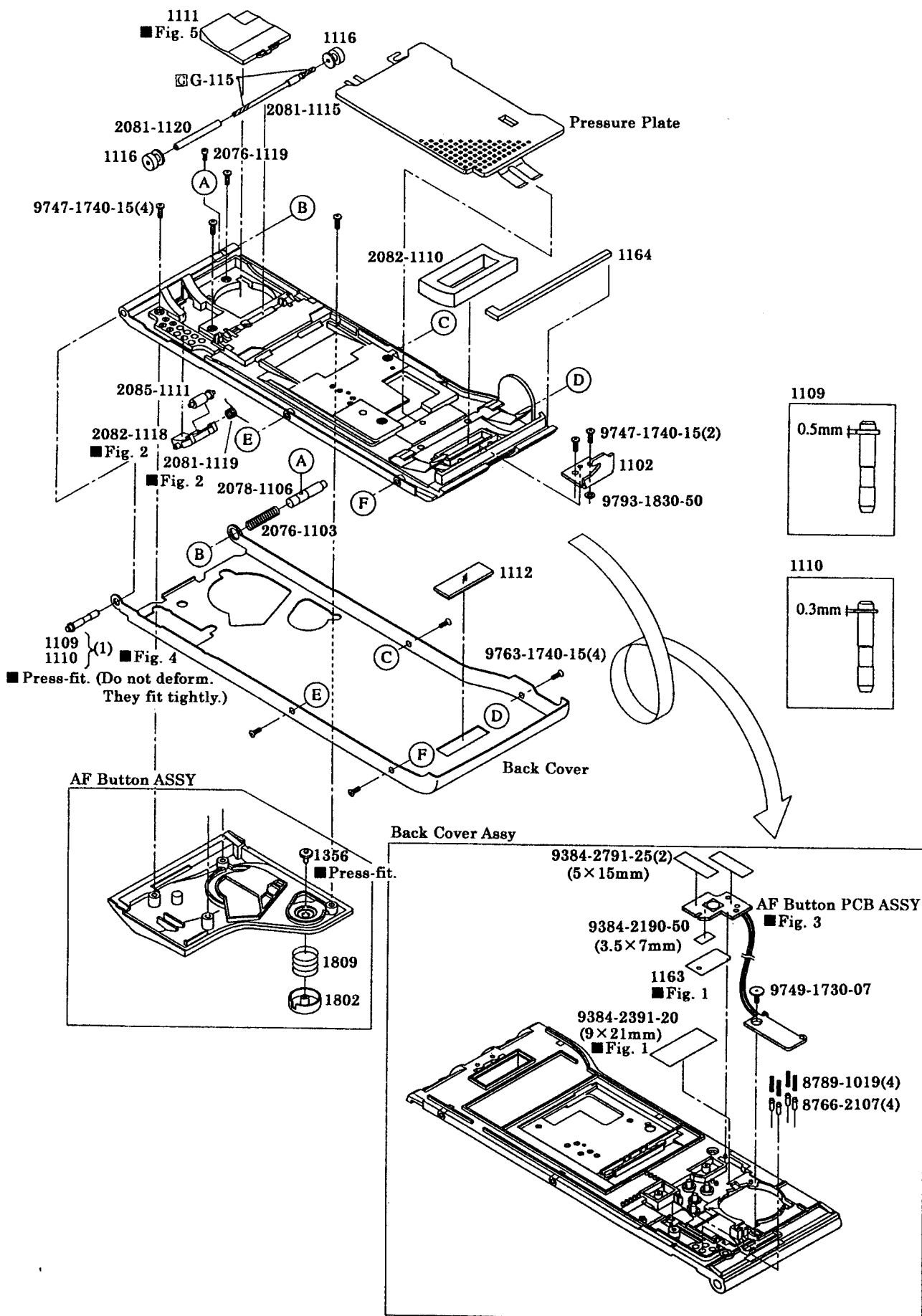


■ Fig. 6

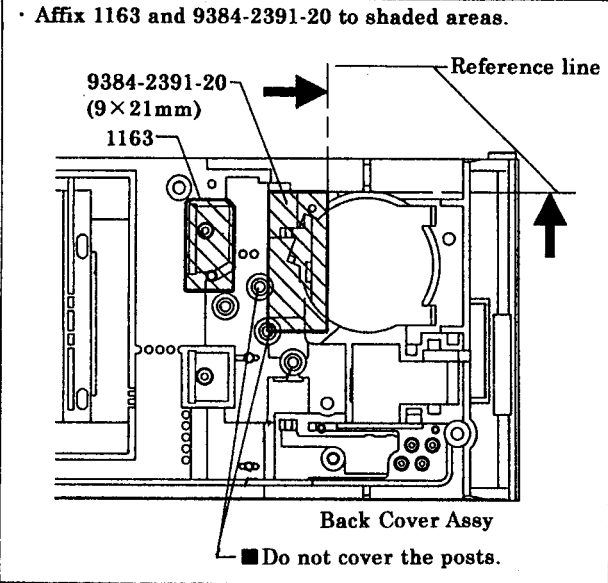
- Affix 9384-2391-20 in position.



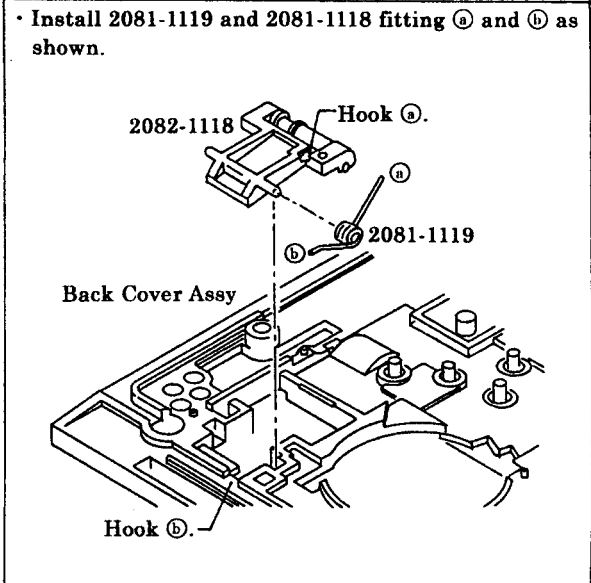
■ Back Cover Assembly



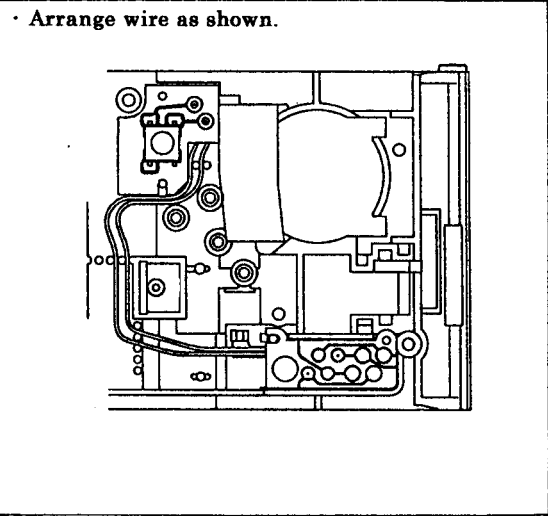
■ Fig. 1



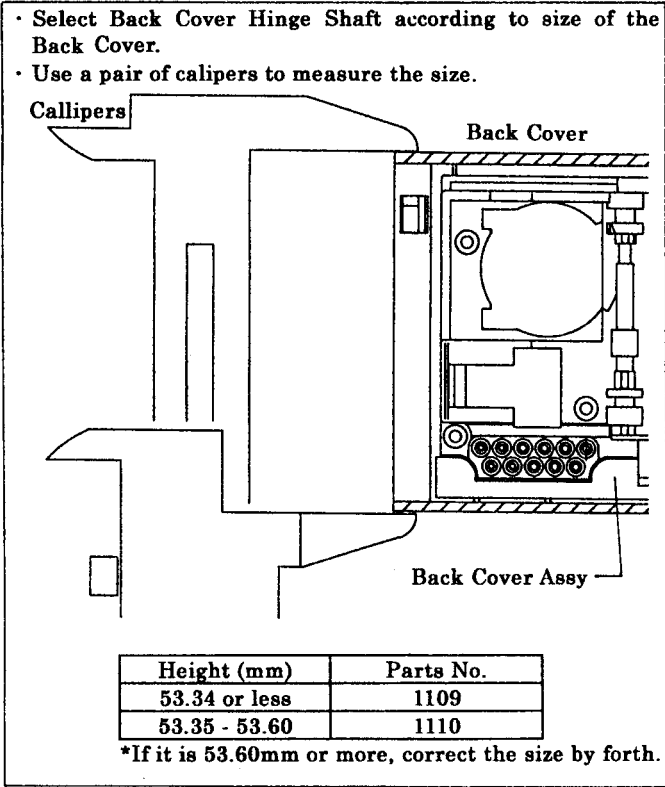
■ Fig. 2



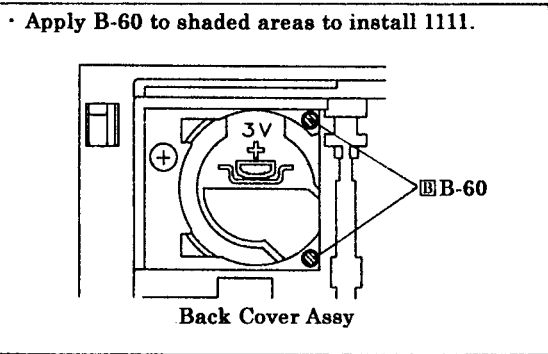
■ Fig. 3



■ Fig. 4



■ Fig. 5



SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARY
 MODEL DYNAX 9
 MAXXUM 9
 α -9
INFORMATION**■ Customized modification for push-on type AF Button**

AF Button modification is available to meet with customer preference.

This information includes how the modification will change the AF Button operation, and how to modify it.

■ AF Button operation after modification

Focus that is confirmed by pressing AF Button stays locked until the AF Button is pressed again.

No need to keep the button pressed down to lock focus.

<While Eye-Start Switch is set to ON position>

- Auto focus is disabled by pressing Shutter-Release Button partway down (S1 ON).

- Auto focus starts by pressing AF Button.

- * Metering also starts by pressing Shutter-Release Button, but always with center-weighted average because of no distance data.

<While Eye-Start Switch is set to OFF position>

- Auto focus starts by pressing Shutter-Release Button partway down or by pressing AF Button.

■ Operation of CUST-15 setting after modification

CUST-15	Eye-start Switch position	When eye-sensor activated		When S1 is ON	When AF Button is pressed	Front/Rear Control Dial
		Metering	AF			
1	ON	×	×	×	○	○
	OFF	×	×	○	○	○
2	ON	×	×	×	○	×
	OFF	×	×	○	○	○
3	ON	×	×	×	○	×
	OFF	×	×	○	○	○

■ Eye-sensor operation after modification

- Auto focus and metering are disabled when camera is brought to eye-level.

<Explanation>

- According to the AF algorithm, the conventional modification has the slow focusing speed when eyepiece sensor is activated. Because, auto focus is activated continuously after pressing AF Button even if focus is confirmed. Therefore, the eyepiece sensor activation is disabled to cancel auto focus and metering when camera is brought to eye-level. See the procedure to disable eyepiece sensor.

- If the customer would like to have the function that auto focus and metering start when Eye-start Switch is set to OFF position while CUST15-2 is selected, the eyepiece sensor activation is not disabled.

AF button modification procedure

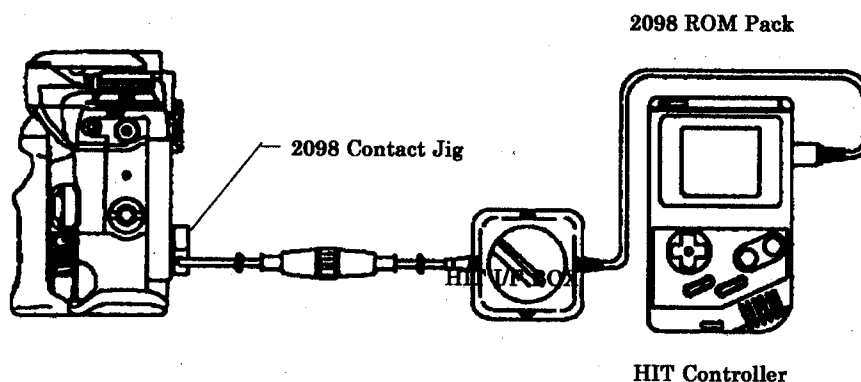
■ Procedure

HIT Controller
2098 ROM Pack
2098 Contract Jig
HIT I/F Box

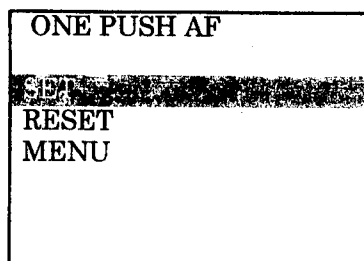
■ Procedure

1. Set up the equipment as in Fig. 1
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "ONE PUSH AF" from assist mode menu and press SELECT Button.
4. Select either setting and press SELECT Button.
SET: Modification to push-on type AF Button
RESET: Original AF Button
5. Press Shutter-Release Button partway down. "COMPLETE" appears when setting is complete.
6. Press SELECT Button to return to assist mode menu.

■ Fig. 1



■ Fig. 2



Procedure to disable eyepiece sensor

■ Procedure

Disassemble the camera, and disable the eyepiece sensor activation with one of the following procedure.

<Procedure-1>

Unsolder 4 lead wires (W43, W44, W59, W60) to separate from the Eyepiece Assy (#0139).

<Procedure-2>

Affix the pieces of the Acetate tape (#9384-2391-20) to the pattern of GRIPSW on the FPC-M Assy (#0413).

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARYMODEL DYNAX 9
MAXXUM 9**INFORMATION** α -9**Mirror Box Assy #2098-0500-01 modification****Parts modification**

See Parts Modification List QS FA 2098-P021.

Mirror Box Assy #2098-0500-01 → -02

Penta-Prism Assy #2098-0580-01 → -02

Parts Compatibility

Part		Penta-Prism Assy #2098-0580-01
Mirror Box Assy	#2098-0500-01	×
	#2098-0500-02	○

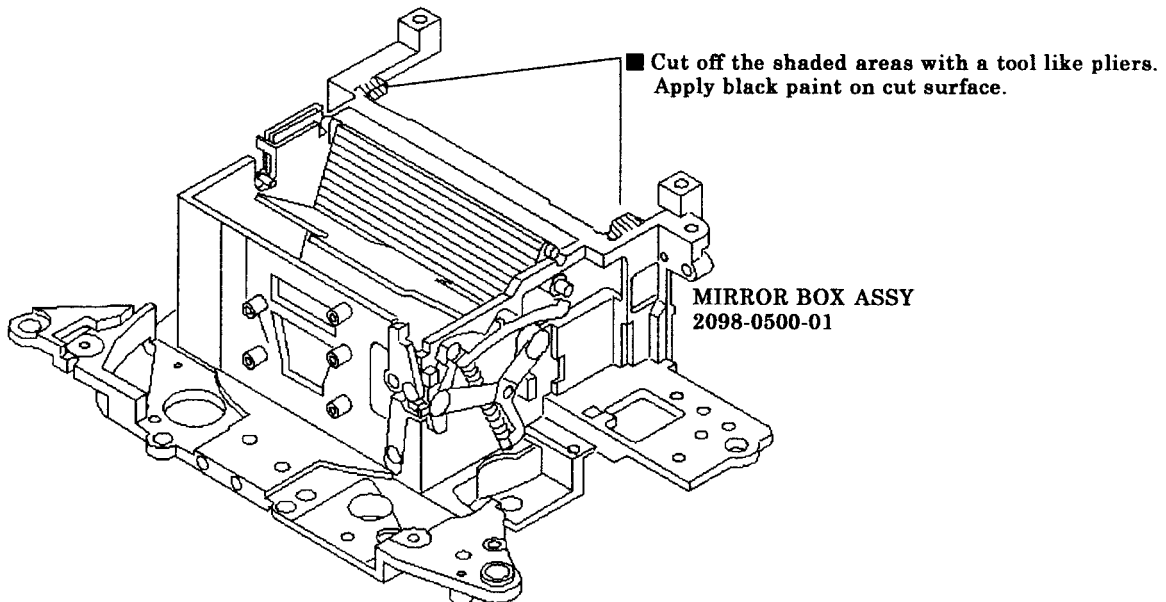
Penta Prism Assy #2098-0580-01 should not be used.

Mirror Box Assy #2098-0500-01 modification

Mirror Box Set #2098-0500-01 can be modified to comply with Penta-Prism Assy #2098-0580-02.

Mirror Box Set with back adjustment washer of 0.1mm or less cannot be modified.

- ① Remove Mirror Box Assy.
- ② Remove Penta-Prism Assy and Shutter Assy.
- ③ Cut off the shaded areas with a tool like pliers.
- ④ Apply black paint on cut surface.



SERVICE MANUAL

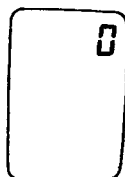
CODE NO. 2098 Series

SUPPLEMENTARY
 MODEL DYNAX 9
 MAXXUM 9
 α -9
INFORMATION**Customized modification of additional custom functions**

Customized modification is available to normal version (-100, -300, -500) to have additional custom functions equivalent to titanium version (-150, -350, -550).

Procedure

1. Turn all displays on in LCDs; Slide Main Switch to ON, then pressing and holding Rewind Button, re-install batteries.
2. Press and hold AE-Lock Button for more than 5 sec. Current version will be replaced with the other;
 "0": NORMAL (-100, -300, -500)
 "1": TITANIUM (-150, -350, -550)



The version "0" appears
(by pressing and holding AE-Lock Button.)



It is replaced with the other after 5 sec.

* The version display will not change if you release AE-Lock Button within 5 sec. Start from step-1.

The display will not change to version display if FPC-A Assy is #2098-0401. Replace it with #2098-0901 and perform "Model selection" to set to TITANIUM on pg. 58, Repair Guide. After performing the "Model selection", this modification procedure is unnecessary.

3. Re-install batteries.

Re-installing batteries will resume normal displays.

Customized modification

Function number	Control	Setting number	Action	
			0: NORMAL (-100, -300, -500)	1: TITANIUM (-150, -350, -550)
CUS-14	Local focus area in viewfinder	2	Always appears for 0.4 sec. at AF Lock	Always appears for 0.6 sec. at AF Lock
CUS-18	Front (F)/Rear (R) Control Dial function in P/A/S mode	3	P: F: No function, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation	P: F: PA, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp.-compensation
		4	-----	P: F: PS, R: Exp.-compensation A: F: Aperture, R: Exp.-compensation S: F: SS, R: Exp. compensation
CUS-22	AF illuminator	1	-----	Fires if necessary
		2	-----	Canceled
CUS-23	Front/Rear Control Dial Lock	1	-----	Off
		2	-----	On

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARYMODEL DYNAX 9
MAXXUM 9**INFORMATION** α -9**■ Customized modification of CUS_t 14-2; AF Area Display time**

AF Area Display time with CUS_t 14-2 is variable from 0.1 sec to 1.6 sec in 0.1-sec increments.

■ Equipment required

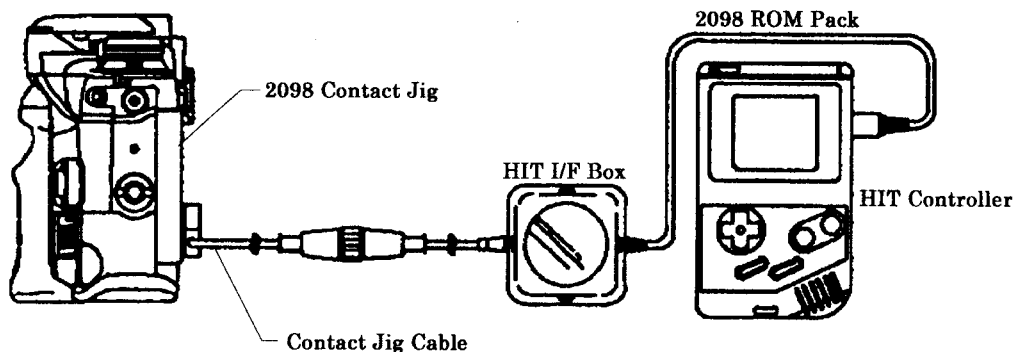
HIT Controller
2098 ROM PACK
2098 Contact Jig
Contact Jig Cable
HIT I/F Box

■ Procedure

1. Setup the equipment as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "FOCUS LED ADJ." from assist mode menu and press SELECT Button.
4. Press Shutter-Release Button partway down (S1 on). Current AF area display duration appears.
5. Select a display time using Control Pad and Button-A/-B;
While pressing and holding Button-A, press upper/lower Control Pad: +/-0.1 (sec.)
While pressing and holding Button-B, press upper/lower Control Pad: +/-1.0 (sec.)
6. Press S1 on. "COMPLETE" appears when adjustment is completed.

If "CHANGE FLEX" appears, FPC-A Assy is #2098-0401. Replace it with #2098-0901, perform "Model selection" to set to TITANIUM on pg. 58, Repair Guide, and start from step-1 above.

7. Press SELECT Button. Displays are replaced with assist mode menu.

■ Fig. 1

SERVICE MANUAL

CODE NO. 2098 Series

SUPPLEMENTARY

MODEL DYNAX 9
MAXXUM 9
-9

INFORMATION**Guidance about SSM Lens(Custom Service)****Procedure**

1. Replace FPC-A ASSY (2098-0801-71) or IC-1(2098-4101-71)
2. After soldering FPC of BL CONTACT HOLDER ASSY(2098-0150-01),attach REGISTOR(9432-3326-67) between 7 and 8 of CN-AE.
3. After replacing FPC-A ASSY (2098-0801-71), adjust as requied in the table on P.32(Repair Geide:included model selection)
4. Set SSM Custom Service.
5. Check the AF operation with SSM Lens.

Custom Service Setting

1. Setup the equipments as in Fig. 1.
2. Select "ASSIST MODE" from main menu and press SELECT Button.
3. Select "SSM CUSTUM SERVICE" from assist mode menu(Fig.2) and press SELECT Button.
4. Select "START" from EEPROM INIT menu(Fig.3) and press Select Button.
5. Press Shutter-Release Button partway down. "Complete" appears when setting is over.
6. Press SELECT Button. Display returns to ASSIST MODE menu.

Fig. 1

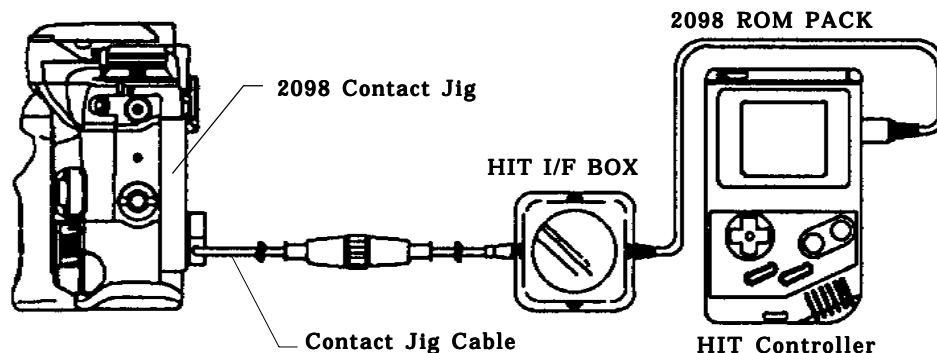


Fig. 2

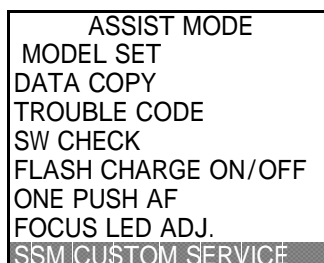
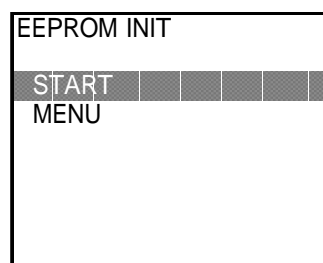


Fig. 3

**Related Information**

: PML QS FA 2098-P032

This information should be filed in your service manual.

MINOLTA CO.,LTD.

Trouble-shooting Chart

■ This section consists of the following items.

CONTENTS

page

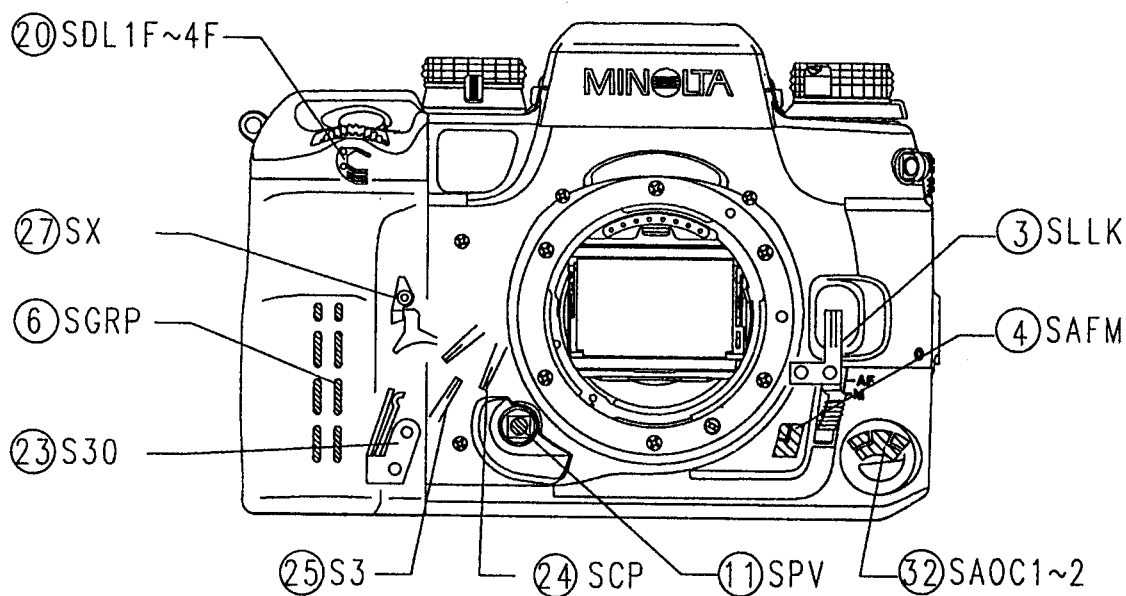
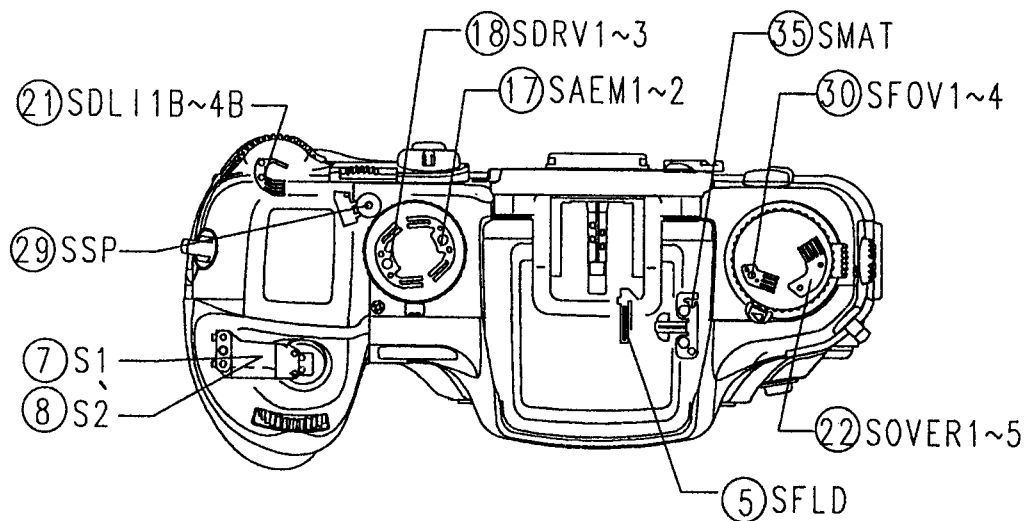
■ Precautions	1	■ Electrical Elements list	2
■ Switches	2	■ FPC-A Assy (0401)	13
■ Layout	2	■ DC/DC Converter PCB Assy (0444)	15
■ Switch Function	2	■ Flash PCB Assy (0443)	16
■ Switch Check	2	■ FPC-O Assy (0415)	17
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■ Cause-finding chart	2	■ FPC-N Assy (0414)	19
■ Map of electrical elements	2	■ FPC2 Lens Holder Assy (0515)	19
		■ FPC-B Assy (0402)	20
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		■ FPC-S Assy (0419)	22
		■ AF Button PCB Assy (0420)	22
		■ Circuit Diagram 1	23
		■ Circuit Diagram (Flash)	24

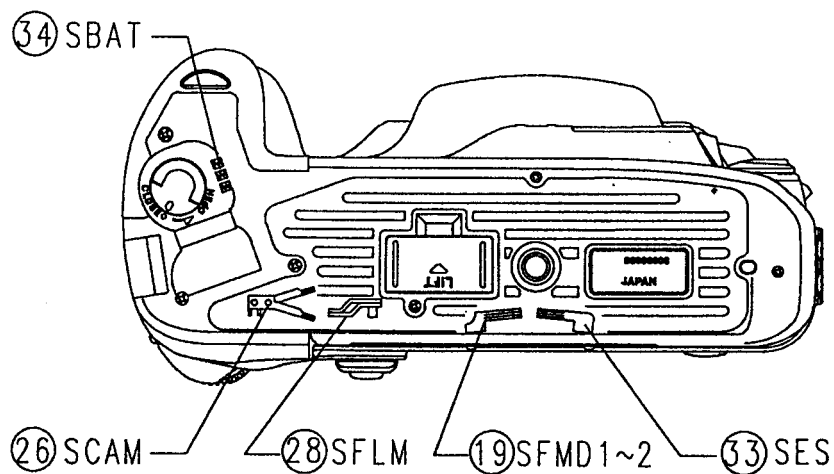
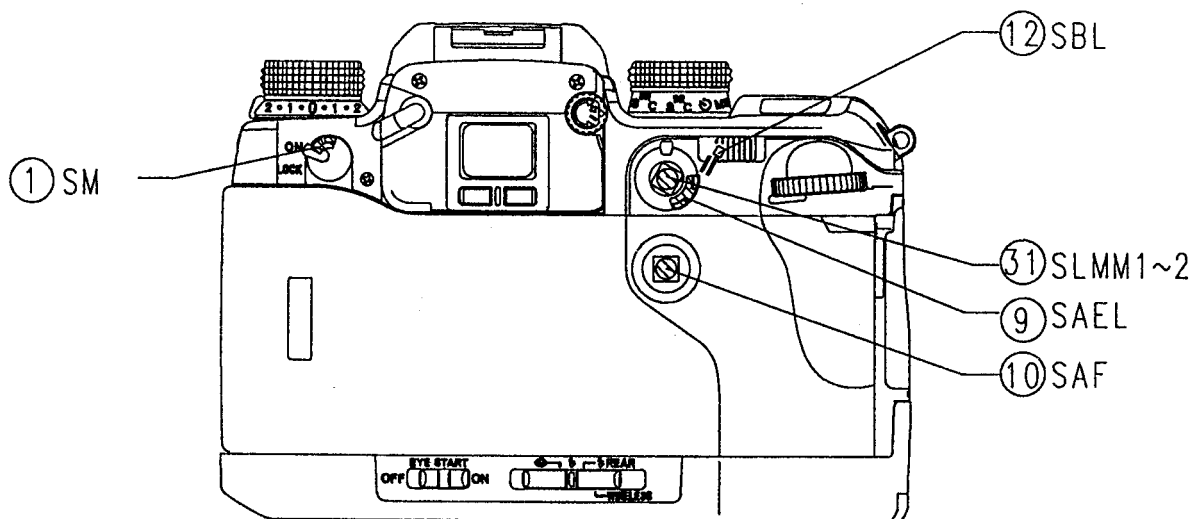
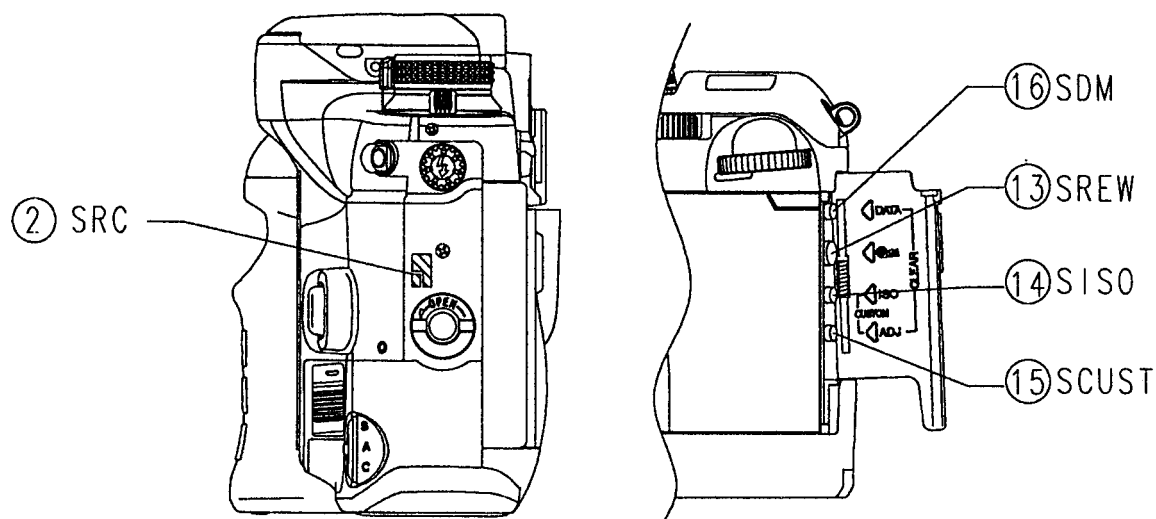
■ Precautions

- (1) To check voltage, use digital Multimeter or an apparatus which input impedance of 10M Ω or greater.
- (2) To check conductivity, use a circuit tester of 3V or less.
- (3) check mainly soldering at lead wires or electrical elements and switch operation, since elements (IC, diode, transistor, resistor, or condenser) seldom cause the trouble.
- (4) When checking, do not push elements or pull lead wires strongly.
- (5) When checking voltage at patterns where switch operates, be careful not to prevent switch operation or to scratch patterns.
- (6) Before removing electrical parts, be sure to disconnect Power Supply.
- (7) Before soldering, heat the soldering iron to 290 - 340°C. If higher, solder quickly.
- (8) When handling ICs avoid static electricity.
- (9) When using DC Power Supply, set the unit to 5.9V/2A.

■Switches

■Layout





Switch Function

No.	Symbol	Description	Function	Operation																																
1	SM	Main	Activates/deactivates camera	ON/OFF by sliding Main Switch																																
2	SRC	Back cover	Detects back cover status	OFF when Back Cover closed.																																
3	SLLK	Lens Lock	Detects lens existence	OFF when lens is attached																																
4	SAFM	AF/M	Detects AF coupler status	ON in AF mode, OFF in M mode																																
5	SFLD	Flash down	Detects built-in flash position.	ON when flash is up.																																
6	SGRP	Grip	Detects grip sensor	ON when grip is held																																
7	S1	Metering	Starts metering, focusing, indications	ON by pressing Shutter-Release Button partway down.																																
8	S2	Release	Starts shutter release	ON by pressing Shutter-Release Button all the way down.																																
9	SAEL	AE lock	Holds metering value	ON by pressing AE Lock Button																																
10	SAF	AF	Selects focus area	By Control Dials																																
11	SPV	Preview、	Detects depth-of-field preview	On by pressing Depth-of-field Preview Button.																																
12	SBL	Back light	Starts on-body LCD illumination	ON by sliding Data Panel Illuminator																																
13	SREW	Rewind	Starts rewind	ON by pressing Rewind Button																																
14	SISO	ISO	Selects film speed	By Control Dial																																
15	SCUST	Adjust	Sets Adjust/Custom setting	By Control Dial (+ISO Button)																																
16	SDM	Data Memory	Stores photographic data	By Control Dial																																
17	SAEM1 to 2	Exposure mode	Selects exposure mode (P/A/S/M)	Combination; <table><tr><td></td><td>SAEM1</td><td>SAEM2</td></tr><tr><td>P</td><td>OFF</td><td>ON</td></tr><tr><td>A</td><td>ON</td><td>ON</td></tr><tr><td>S</td><td>ON</td><td>OFF</td></tr><tr><td>M</td><td>OFF</td><td>OFF</td></tr></table>		SAEM1	SAEM2	P	OFF	ON	A	ON	ON	S	ON	OFF	M	OFF	OFF																	
	SAEM1	SAEM2																																		
P	OFF	ON																																		
A	ON	ON																																		
S	ON	OFF																																		
M	OFF	OFF																																		
18	SDRV1 to 3	Drive mode	Selects drive mode	Combination; <table><tr><td></td><td colspan="3">SCRV</td></tr><tr><td></td><td>1</td><td>2</td><td>3</td></tr><tr><td>Multi</td><td>ON</td><td>OFF</td><td>OFF</td></tr><tr><td>Self</td><td>ON</td><td>ON</td><td>OFF</td></tr><tr><td>Cont.</td><td>OFF</td><td>ON</td><td>OFF</td></tr><tr><td>Single</td><td>OFF</td><td>OFF</td><td>OFF</td></tr><tr><td>Cont. bracket</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>Single bracket</td><td>ON</td><td>OFF</td><td>ON</td></tr></table>		SCRV				1	2	3	Multi	ON	OFF	OFF	Self	ON	ON	OFF	Cont.	OFF	ON	OFF	Single	OFF	OFF	OFF	Cont. bracket	OFF	OFF	ON	Single bracket	ON	OFF	ON
	SCRV																																			
	1	2	3																																	
Multi	ON	OFF	OFF																																	
Self	ON	ON	OFF																																	
Cont.	OFF	ON	OFF																																	
Single	OFF	OFF	OFF																																	
Cont. bracket	OFF	OFF	ON																																	
Single bracket	ON	OFF	ON																																	
19	SFMD1 to 2	Flash mode	Selects flash mode	Combination; <table><tr><td></td><td colspan="2">SFMD</td></tr><tr><td></td><td>1</td><td>2</td></tr><tr><td>Pre</td><td>OFF</td><td>ON</td></tr><tr><td>Normal</td><td>OFF</td><td>OFF</td></tr><tr><td>Rear-sync.</td><td>ON</td><td>ON</td></tr><tr><td>Wireless</td><td>ON</td><td>OFF</td></tr></table>		SFMD			1	2	Pre	OFF	ON	Normal	OFF	OFF	Rear-sync.	ON	ON	Wireless	ON	OFF														
	SFMD																																			
	1	2																																		
Pre	OFF	ON																																		
Normal	OFF	OFF																																		
Rear-sync.	ON	ON																																		
Wireless	ON	OFF																																		
20	SDL1F to 4F	Front Dial	Selects settings	By Front Control Dial																																

TRUBLE-SHOOTING
CHART

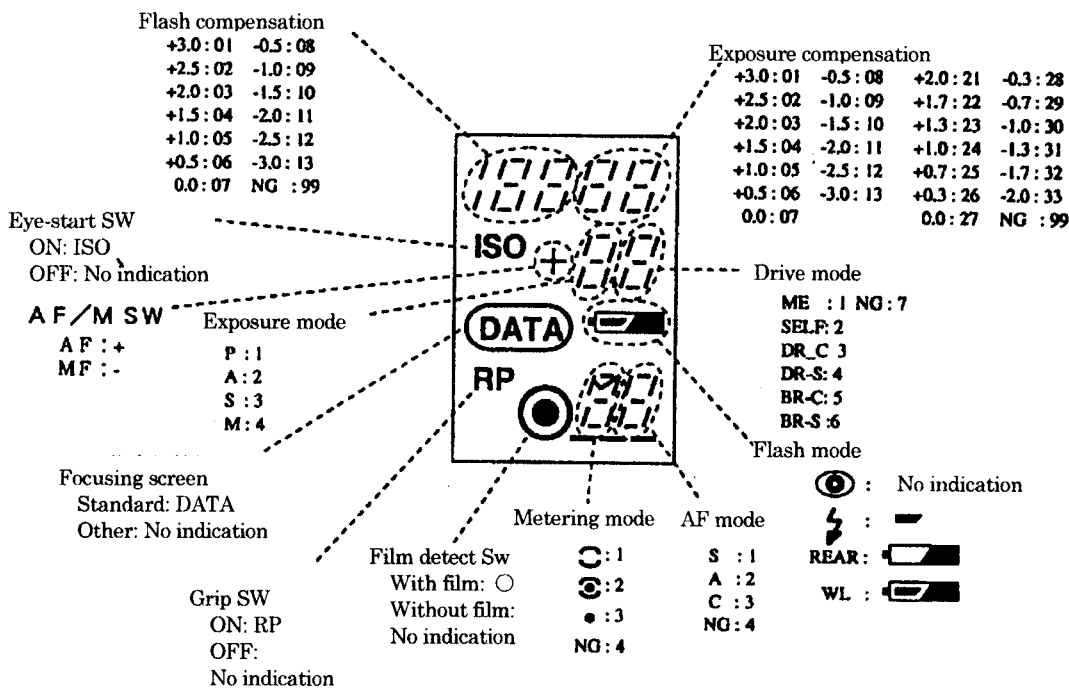
No.	Symbol	Description	Function	Operation															
21	SDL1B to 4B	Rear Dial	Selects settings	By Rear Control Dial															
22	SOVER1 to 5	Exposure-compensation	Sets exposure-compensation	By Exposure-Compensation Dial															
23	S30	Open aperture	Detects shutter release	ON when SL2 RMg separates															
24	SCP	Mid-charge	Detects aperture, mirror charge completion	ON instantly when aperture and mirror charge completes. OFF when mechanical charge compompletes.															
25	S3	Charge completion	Detects mechanical charge completion	ON at mechanical charge completion															
26	SCAM	Transport changeover	Detects position of film transport mechanism	ON during film advance, OFF during film rewind															
27	SX	Sync.	Triggers flash	ON when 1C run completes, OFF when film advance starts															
28	SFILM	Film detect	Detects film existence	OFF when film is loaded.															
29	SSP	Sprocket	Detects film transportation	ON/OFF according to sprocket rotation															
30	SFOV1 to 4	Flash compensation	Sets flash compensation	By Flash-Compensation Dial															
31	SLMM1 to 2	Metering mode	Selects metering mode	Combination <table><tr><td></td><td colspan="2">SLMM</td></tr><tr><td></td><td>1</td><td>2</td></tr><tr><td>Sport</td><td>ON</td><td>OFF</td></tr><tr><td>Multi</td><td>OFF</td><td>OFF</td></tr><tr><td>Average</td><td>OFF</td><td>ON</td></tr></table>		SLMM			1	2	Sport	ON	OFF	Multi	OFF	OFF	Average	OFF	ON
	SLMM																		
	1	2																	
Sport	ON	OFF																	
Multi	OFF	OFF																	
Average	OFF	ON																	
32	SAOC1 to 2	AF mode	Selects AF mode	Combination <table><tr><td></td><td colspan="2">SAOC</td></tr><tr><td></td><td>1</td><td>2</td></tr><tr><td>Continuous</td><td>ON</td><td>OFF</td></tr><tr><td>Auto</td><td>OFF</td><td>OFF</td></tr><tr><td>Single</td><td>OFF</td><td>ON</td></tr></table>		SAOC			1	2	Continuous	ON	OFF	Auto	OFF	OFF	Single	OFF	ON
	SAOC																		
	1	2																	
Continuous	ON	OFF																	
Auto	OFF	OFF																	
Single	OFF	ON																	
33	SES	Eye-start	Selects eye-start on/off	OFF by sliding Eye-Start Switch to ON															
34	SBAT	Battery	Resets IC1	OFF when batteries are installed															
35	SMAT	Focus screen detect	Detects Focus screen type-M	OFF when Focus screen type-M attached															

Switch Check

Check-1

- 1. Turn Main Switch to ON. While pressing Rewind Button, re-install batteries.
- All displays appear in Data Panel.
- 2. Press Rewind Button again. Display as Fig. 1 appears showing switch status.
- 3. Re-install batteries to return to normal display.

Fig. 1



Check-2

- 1. Set up the equipment as in Fig. 2.
- 2. Select "SW CHECK" from assist mode menu and press SELECT Button.
- 3. Press Shutter-Release Button partway down.
- Switch status appears as in Fig. 3.
- Some of them don't appear unless S1 ON.
- 4. Press SELECT Button. Displays are replaced with the assist mode menu.

Equipment required for Check-2

- HIT Controller
- HIT I/F Box
- 2098 ROM Pack
- HIT Contact Jig-C
- Contact Jig Cable

Fig. 2

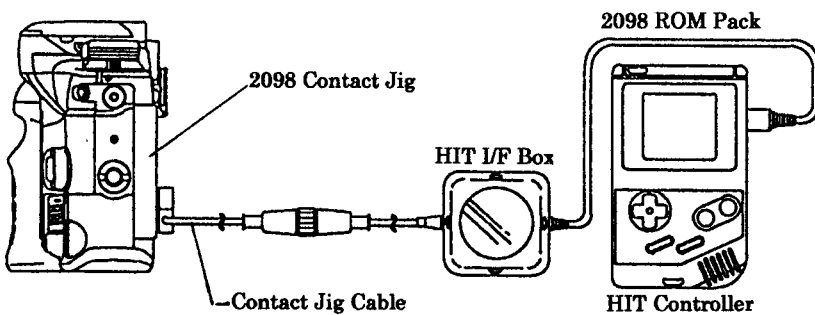
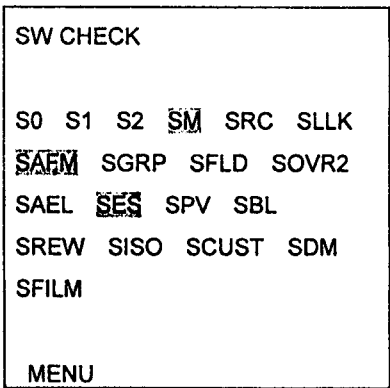


Fig. 3



■Trouble code

■Check-1

1. While error display appears, or while all displays appear in Data Panel (See Check-1-1, pg. 6), pressing and holding shutter-Release Button all the way down, press Rewind Button.

*Current error code appears in Data Panel.

2. Slide Main Switch to ON to return to normal display.

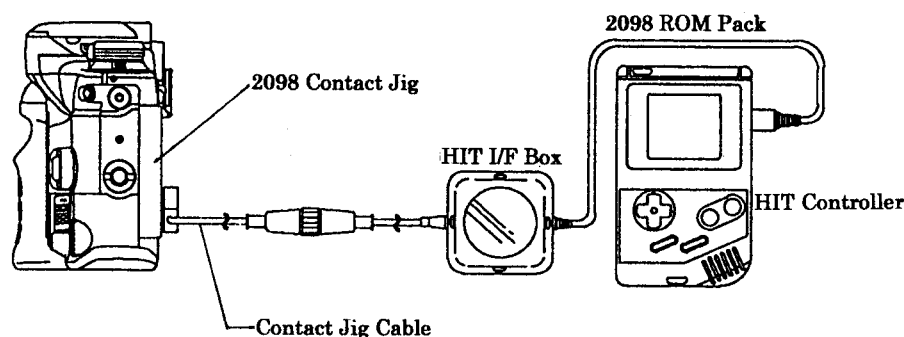
■Check-2

1. Set up the equipment as in Fig. 1.
2. Select "TROUBLE CODE" from assist mode menu and press SELECT Button.
3. Press Shutter-Release Button partway down. Trouble codes appear. To erase the codes in memory, select "CLEAR" and press SELECT Button.
4. Select "MENU" and press SELECT Button. Displays are replaced with the assist mode menu.

■Equipment required for Check-2

HIT Controller
HIT I/F Box
2098 ROM Pack
HIT Contact Jig-C
Contact Jig Cable

■Fig. 1



■ Trouble code list

Code	Condition	Cause	Indication
01	S30 does not turn off or no aperture pulse output within 9ms after RMg ON.	-Poor Aperture Mg. Attraction	Internal HELP; RMg OFF, FMg ON then aperture control.
03	Aperture pulse is over 16 pulses less than required at aperture stabilization completion	-Aperture operation failure	"Err" in Data Panel; if it occurs successively.
04	Aperture pulse is over 24 pulses more than required at aperture stabilization completed.	-Aperture stop failure.	Internal HELP
10	During shutter-release charge, S3 doesn't turn ON 800ms after charge motor powered. During depth-of-field preview, S3 doesn't turn ON after PV Switch OFF or 400ms after SCP ON During shutter release in depth-of-field preview, S3 doesn't turn ON after S2 ON or 400ms after SCP ON.	-S3 poor contact -Poor soldering -Motor failure -Defective gear -Defective IC6	Data Panel turns off; after Charge motor brakes for 50ms
11	During shutter-release charge, SCP doesn't turn ON 800ms after charge motor powered. During depth-of-field preview, SCP doesn't turn ON after PV Switch OFF or 400ms after SCP ON During shutter release in depth-of-field preview, SCP doesn't turn ON 400ms after S2 ON.	-SCP poor contact -Poor soldering -Motor failure -Defective gear -Defective IC6	Data Panel turns off; after Charge motor (M3) brakes for 50ms
12	Shutter isn't set; SX is ON before shutter 1C run	Shutter isn't set.	Data Panel turns off; when S2 is on. (No indication if back cover is open.)
13	Shutter doesn't run; SX isn't ON after 1C run and SREL ON	Shutter failure	"Err" in Data Panel; if it occurs successively for 2 frames..
20	SCAM does not change 1.5sec after winding motor reverse drive start	-No gears changeover -SCAM contact failure -Aperture operation failure	Data Panel turns off; after Winding motor brakes for 50ms.
21	SSP does not change after 8400 WMP (winding motor pulse) during film rewind.	-Film tear-off -Rewind fork doesn't catch film.	Data Panel turns off; after Winding motor brakes for 50ms.
22	During film rewind L-drive, WMP output is less than 5 pulses in 40ms successively for 10 times.	-Film jam	Data Panel turns off; after Winding motor brakes for 50ms.
80	No integration-start-signal output during CCD initializing	-CCD failure -Poor contact between FPC-A and B.	Data Panel turns off; after CCD initializing terminated.

Cause-finding chart

No activation

Symptom	Cause			
	IC	Connection	Element	Switch and other
No activation	IC-1 (2) IC-3 (34)(35) (36)(37) (44)	W7, W8, W12, W13, W15, W37, W38 Stained FPC-V pattern CN-DCO CN-4, CN-8 CN-AF, CN-AM	R10, R11, R86, C15, C16, C27 X2, X3	SM

No shutter release

Symptom	Cause			
	IC	Connection	Element	Switch and other
No shutter release	IC-1 (16) IC-3 (45)(46) IC-4 (46)(57)	W4, W6, W54, W55, W56	R15, R16	

Err

Symptom	Cause			
	IC	Connection	Element	Switch and other
Err03	IC-1 (19)(21) IC-4 (15)	CN-AF, CN-AM		S30
Err04			Q9	
Err10	IC-6	W3, W7		S3 Aperture Baseplate Assy
Err11	IC-6			SCP Aperture Baseplate Assy
Err12				SCP
Err13	IC-4 (54)(59)	W18, W19, W66, W67	Q19	
Err20				SCAM
Err22				SSP Winding Baseplate Assy
Err80		CN-AB, CN-AP		FPC-B Assy

No shutter release with Remote-controller

Symptom	Cause			
	IC	Connection	Element	Switch and other
No shutter release with Remote-controller			R12, R13, R14	FPC-M Assy

No initial loading

Symptom	Cause			
	IC	Connection	Element	Switch and other
No initial loading	IC-1 (38) IC-3 (43)	W64, W65 CN-AF, CN-AM CN-AN, CN-AD	R81	FPC-D Assy FPC-M Assy

■No built-in flash firing

Symptom	Cause			
	IC	Connection	Element	Switch and other
No flash charge and no shutter-release	IC-1 (53)	W12, W13, W15	T151 D152 Q154, etc.	
Flash charges but no shutter-release	IC-1 (54)	W11	ZD151 R161, R162 Q157	
Flash charge but not fires	IC-1 (78) IC-4 (18)(43)	W9	Xe tube T152 Q161, Q163, Q164 C158, C159 R168, R169	

■No acc flash firing

Symptom	Cause			
	IC	Connection	Element	Switch and other
No acc flash firing	IC-4 (1)(2)	CN-3, CN-7 F2, F3	L1, L2 C50	

■No pre-flash

Symptom	Cause			
	IC	Connection	Element	Switch and other
No pre flash	IC-1 (53)(54)(78) IC-4 (43)	W11	C158, C159 R164 Q161	

■Display failure in data panel

Symptom	Cause			
	IC	Connection	Element	Switch and other
No display	IC-3 (92)(93)(94) (95)	Short-circuit between SFL and flex from Penta-Prism Assy		FPC-L Assy Flex from Penta- Prism Assy
Missing segments	IC-3 (57 to 88)			FPC-L Assy Flex from Penta- Prism Assy

■No back light

Symptom	Cause			
	IC	Connection	Element	Switch and other
No Data-Panel illuminator	IC-1 (20)	W41, W42	LD5A, LD5K R4 Q2	
No vertical data panel in viewfinder	IC-1 (23)		R60, R61 Q22, Q23	
No horizontal data panel in viewfinder	IC-3 (49)			

■No AF illuminator

Symptom	Cause			
	IC	Connection	Element	Switch and other
All beams do not light.	IC-3 (55)(56)		R53	
Right beam does not light.	IC-1 (1)		Q32, Q33	
Left beam does not light.	IC-1 (99)		Q11, Q13	
Center beam does not light.	IC-1 (100)		Q12	

■No local focus area LED

Symptom	Cause			
	IC	Connection	Element	Switch and other
All local focus area LEDs do not light	IC-1 (22)		Q28, Q29	FPC-Q
Right local focus area LED does not light	IC-1 (35)		Q27 R65	FPC-Q
Left local focus area LED does not light.	IC-1 (33)		Q25 R63	FPC-Q
Center local focus area LED does not light.	IC-1 (34)		Q26 R64	FPC-Q

■AF failure

Symptom	Cause			
	IC	Connection	Element	Switch and other
"F—" appears with 2nd generation lens.	IC-3 (42) IC-4 (4)(6)(7)(8) (29)	W39, W40 BL contact CN-AE	R36, R37, R38, R39, R70	BL Contact Holder Assy SLLK
No infinity reset with 3rd generation lens	IC-4 (4)(5)	BL contact CN-AE	R40, R41, R42 Q8	BL Contact Holder Assy
AF coupler runs idle with any lens	IC-1 (24)	W35, W36		FPC-U
Focus mode cannot set to AF.	IC-1 (24)	W35, W36	R23	SAFM FPC-U
No AF operation	IC-1 (25)(63)(64) IC-4 (31)(78)(79) IC-7		PC1 C37 D12, D13	FPC-G Assy

■No eye detection

Symptom	Cause			
	IC	Connection	Element	Switch and other
No eye detection	IC-2 (11) IC-3 (12)(43)(47) (48)(49)(58)	W43, W44, W59, W60	R8, R9, R78, R79, R81 Q4 C13	SES, SGRP, SRC FPC-O Assy FPC-D FPC-M Assy FPC-N Assy

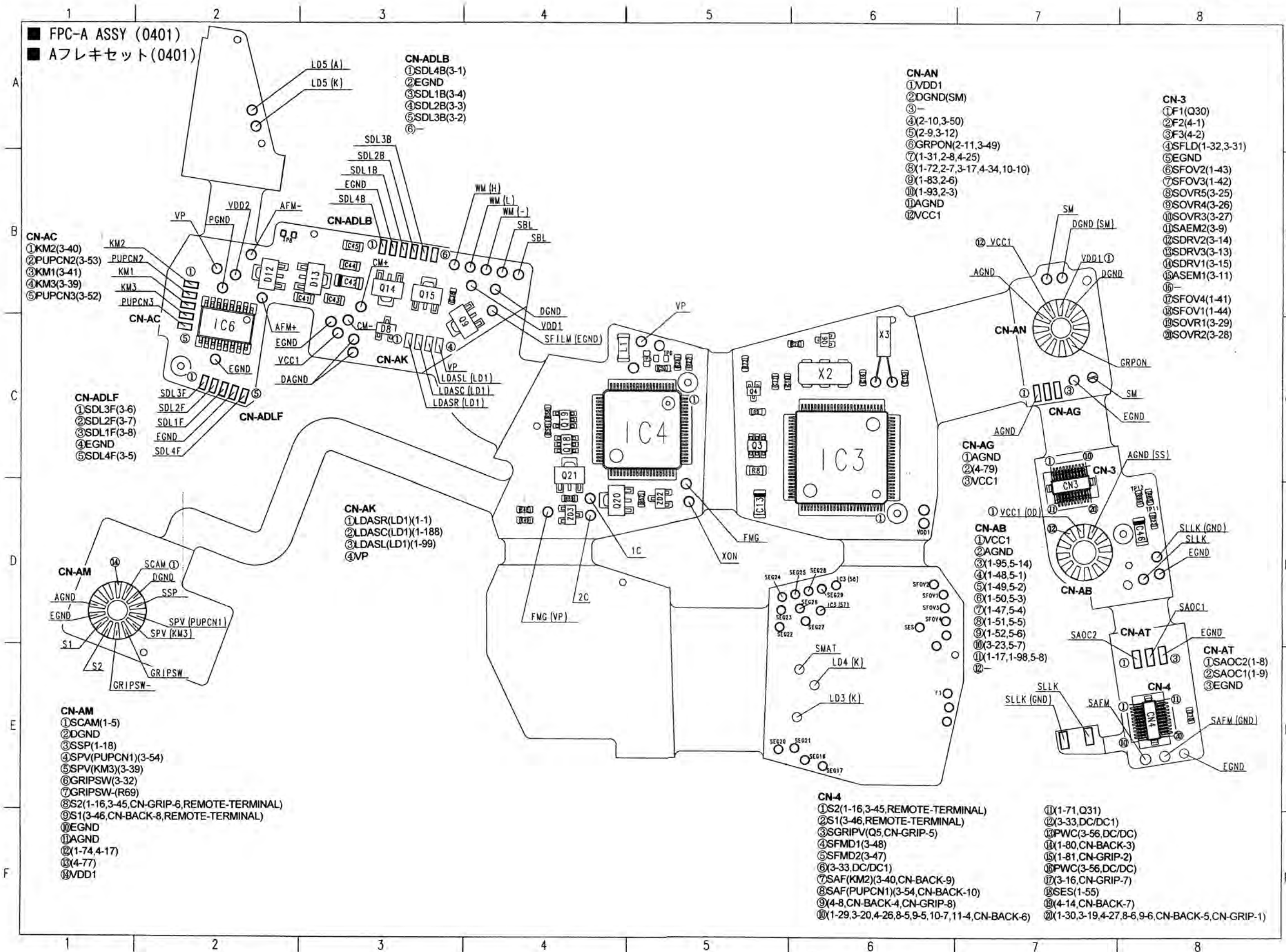
■ Map of electrical elements

■ Electrical Elements list

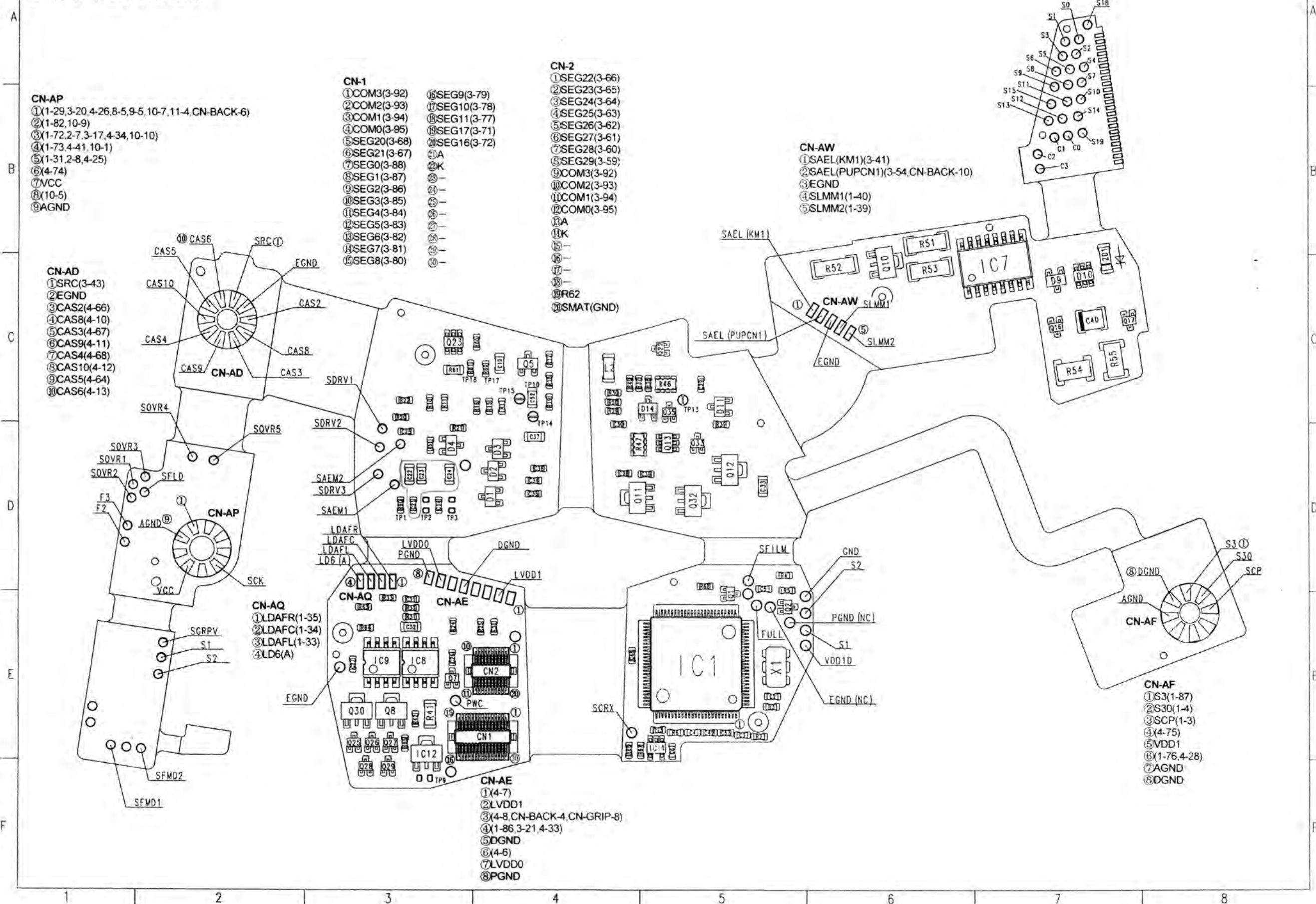
* See "FPC-A Assy" on page in brackets ().

Element	Location	Element	Location	Element	Location	Element	Location
C2	E5 (P. 14)	D1	D4 (P. 14)	R1	C4 (P. 14)	R54	C7 (P. 14)
C3	E5 (P. 14)	D2	D4 (P. 14)	R2	E5 (P. 14)	R55	C7 (P. 14)
C4	E5 (P. 14)	D3	D4 (P. 14)	R3	E5 (P. 14)	R56	C4 (P. 13)
C5	E5 (P. 14)	D4	D3 (P. 14)	R4	D5 (P. 14)	R57	D5 (P. 13)
C6	E5 (P. 14)	D8	C3 (P. 13)	R5	E5 (P. 14)	R58	C4 (P. 13)
C13	D5 (P. 13)	D9	C7 (P. 14)	R6	E5 (P. 14)	R59	D4 (P. 13)
C14	D3 (P. 14)	D10	C7 (P. 14)	R8	C5 (P. 13)	R60	C4 (P. 14)
C15	C6 (P. 13)	D11	C5 (P. 14)	R9	C5 (P. 13)	R61	C3 (P. 14)
C16	C6 (P. 13)	D12	B2 (P. 13)	R10	C3 (P. 14)	R63	E3 (P. 14)
C17	C5 (P. 13)	D13	B3 (P. 13)	R11	C3 (P. 14)	R64	E3 (P. 14)
C18	C5 (P. 13)	D14	C5 (P. 14)	R15	C4 (P. 14)	R65	E3 (P. 14)
C19	C4 (P. 14)			R16	C4 (P. 14)	R66	E4 (P. 14)
C21	D3 (P. 14)	Q1	E5 (P. 14)	R17	C4 (P. 14)	R67	E5 (P. 14)
C22	D3 (P. 14)	Q2	E5 (P. 14)	R18	C4 (P. 14)	R70	E8 (P. 13)
C23	D3 (P. 14)	Q3	C5 (P. 13)	R19	C4 (P. 14)	R72	C5 (P. 13)
C24	D3 (P. 14)	Q4	C5 (P. 13)	R20	C3 (P. 14)	R73	E5 (P. 14)
C25	D3 (P. 14)	Q5	C4 (P. 14)	R21	D3 (P. 14)	R80	C4 (P. 14)
C26	E3 (P. 14)	Q6	C6 (P. 13)	R22	C3 (P. 14)	R81	C3 (P. 14)
C27	E3 (P. 14)	Q7	E3 (P. 14)	R23	D8 (P. 13)	R85	D8 (P. 13)
C28	D4 (P. 14)	Q8	E3 (P. 14)	R24	E3 (P. 14)	R86	D8 (P. 13)
C29	C5 (P. 14)	Q9	C4 (P. 13)	R25	E4 (P. 14)	R88	D5 (P. 14)
C30	D4 (P. 14)	Q10	C6 (P. 14)	R26	C6 (P. 13)	R90	D3 (P. 14)
C31	E3 (P. 14)	Q11	D4 (P. 14)	R27	C5 (P. 13)		
C32	E3 (P. 14)	Q12	D5 (P. 14)	R28	C5 (P. 13)	L1	C4 (P. 13)
C33	D5 (P. 14)	Q13	D5 (P. 14)	R29	C4 (P. 14)	L2	C4 (P. 14)
C34	D4 (P. 14)	Q14	B3 (P. 13)	R30	C4 (P. 14)		
C35	D4 (P. 14)	Q15	B3 (P. 13)	R31	E3 (P. 14)	IC-1	E5 (P. 14)
C36	D4 (P. 14)	Q16	C7 (P. 14)	R32	E3 (P. 14)	IC-3	C6 (P. 13)
C37	D4 (P. 14)	Q17	C7 (P. 14)	R33	E3 (P. 14)	IC-4	C5 (P. 13)
C38	B3 (P. 13)	Q18	C4 (P. 13)	R36	E4 (P. 14)	IC-6	C2 (P. 13)
C39	D5 (P. 14)	Q19	C4 (P. 13)	R37	C4 (P. 14)	IC-7	C7 (P. 14)
C40	C7 (P. 14)	Q20	D4 (P. 13)	R38	C5 (P. 14)	IC-8	E3 (P. 14)
C41	B3 (P. 13)	Q21	C4 (P. 13)	R39	D5 (P. 14)	IC-9	E3 (P. 14)
C42	B3 (P. 13)	Q22	C5 (P. 14)	R40	C4 (P. 14)	IC-11	E5 (P. 14)
C43	B3 (P. 13)	Q23	C3 (P. 14)	R41	E3 (P. 14)	IC-12	E3 (P. 14)
C44	B3 (P. 13)	Q25	E3 (P. 14)	R42	E3 (P. 14)		
C45	B3 (P. 13)	Q26	E3 (P. 14)	R46	C5 (P. 14)	X1	E5 (P. 14)
C46	B8 (P. 13)	Q27	E3 (P. 14)	R47	D4 (P. 14)	X2	C6 (P. 13)
C48	E4 (P. 14)	Q28	F3 (P. 14)	R48	D4 (P. 13)	X3	C6 (P. 13)
C49	E5 (P. 14)	Q29	F3 (P. 14)	R49	D4 (P. 13)		
C50	C5 (P. 13)	Q30	E3 (P. 14)	R50	C4 (P. 14)	CN-1	E4 (P. 14)
C51	D3 (P. 14)	Q32	D5 (P. 14)	R51	B6 (P. 14)	CN-2	E4 (P. 14)
C52	C4 (P. 14)	Q33	D5 (P. 14)	R52	C6 (P. 14)	CN-3	D7 (P. 13)
C53	E5 (P. 14)	Q35	C5 (P. 14)	R53	C6 (P. 14)	CN-4	E8 (P. 13)

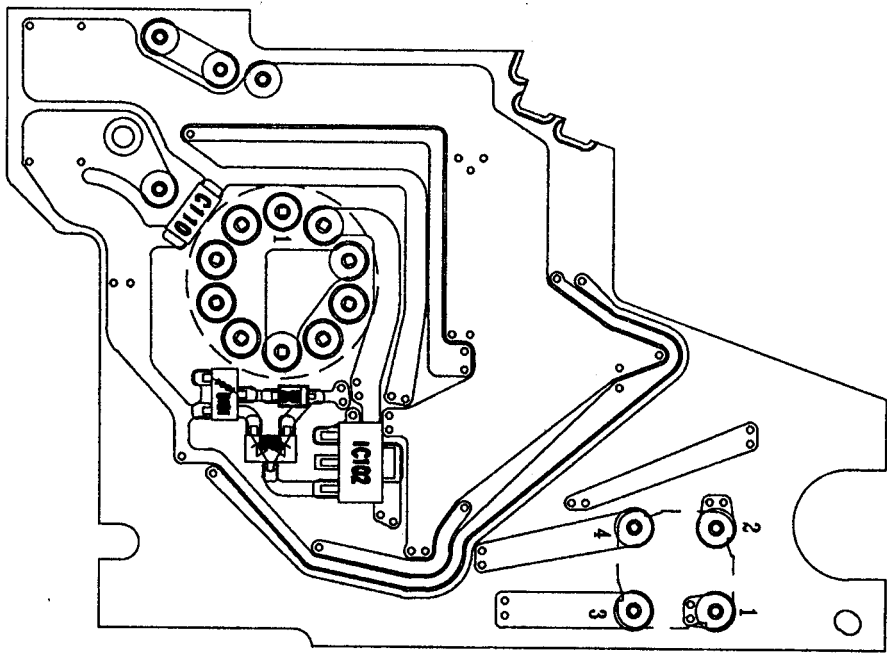
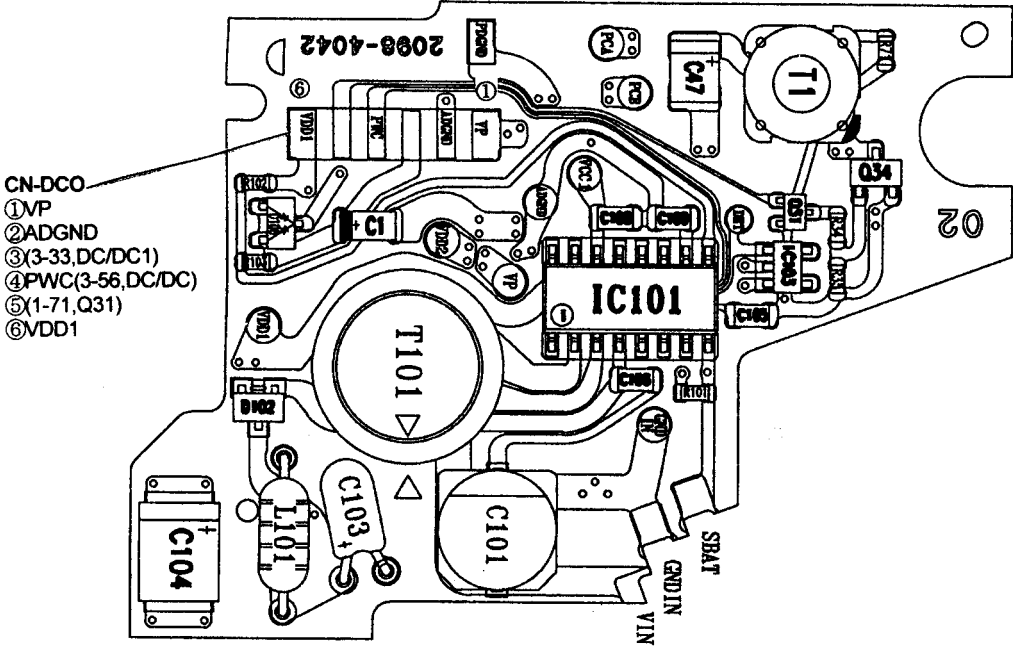
- FPC-A ASSY (0401)
■ Aフレキセット(0401)



- FPC-A ASSY (0401)
 ■ Aフレキセット(0401)

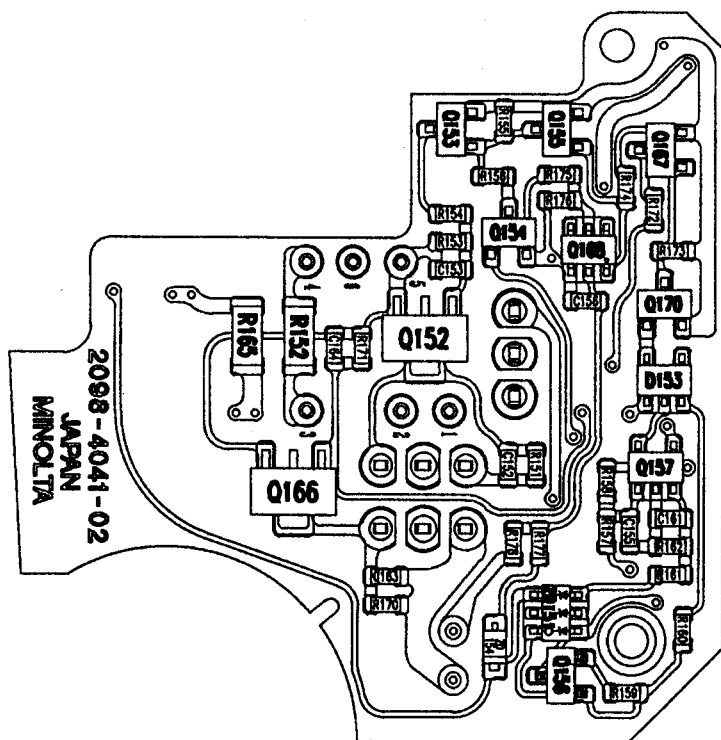
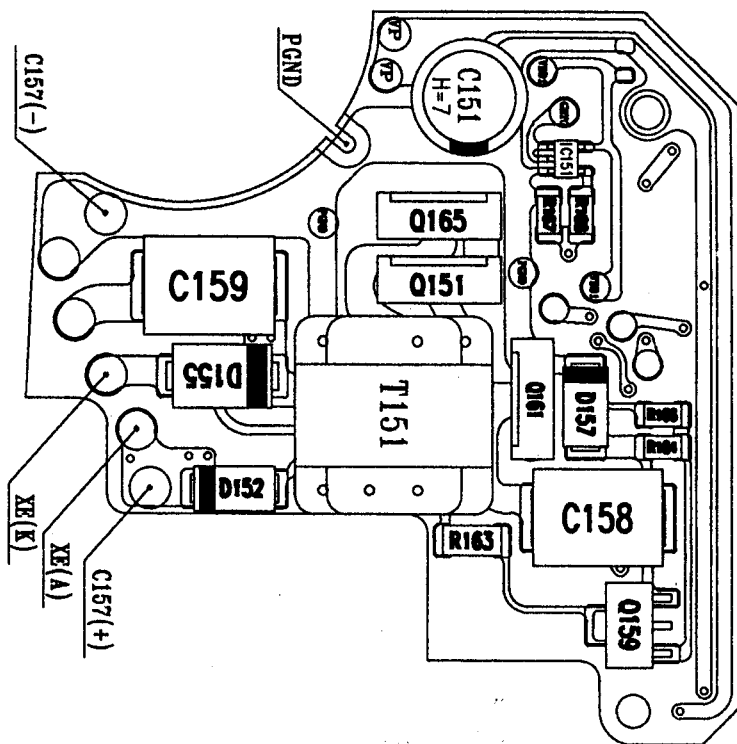


- DC/DC CONVERTER PBC ASSY (0444)
- DC/DCコンバーター基板セット(0444)



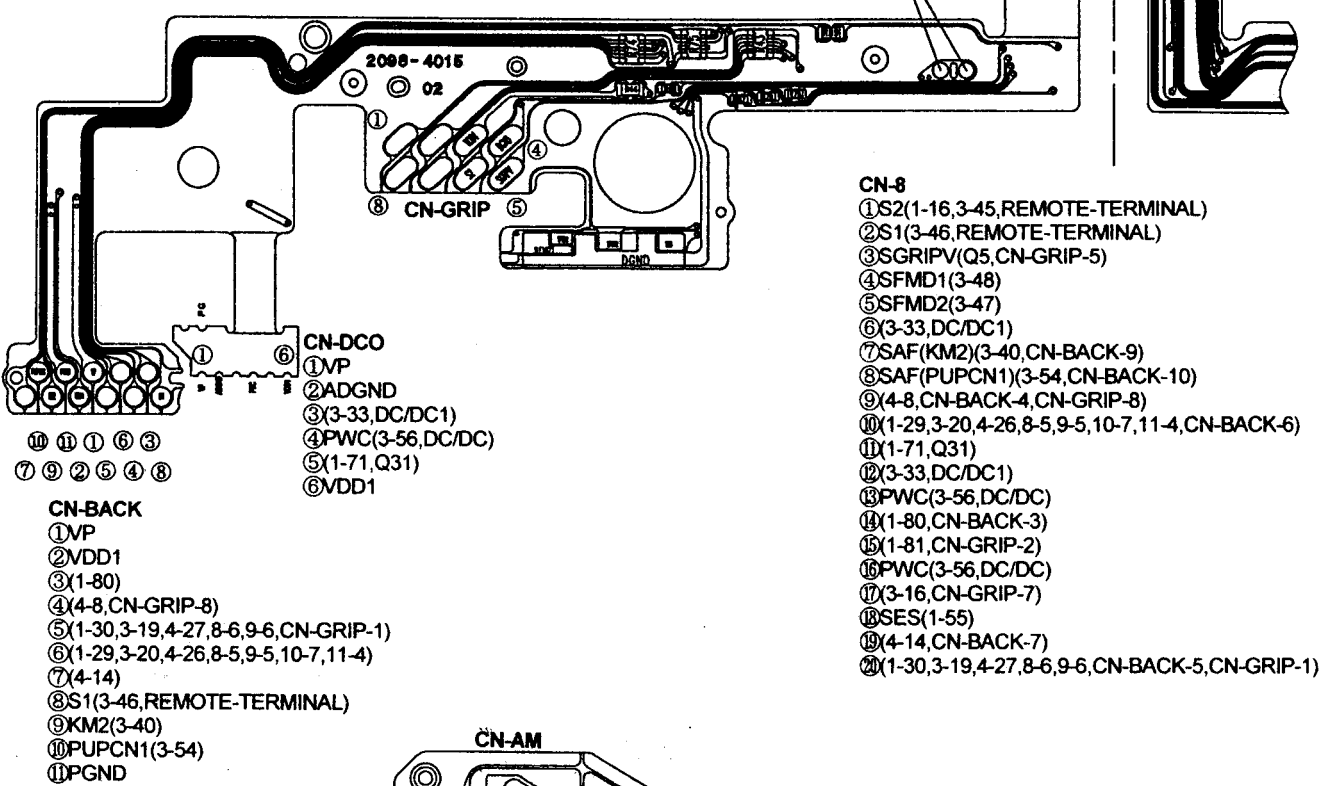
16 (2098)A

- FLASH PCB ASSY (0443)
■ フラッシュ基板セット(0443)



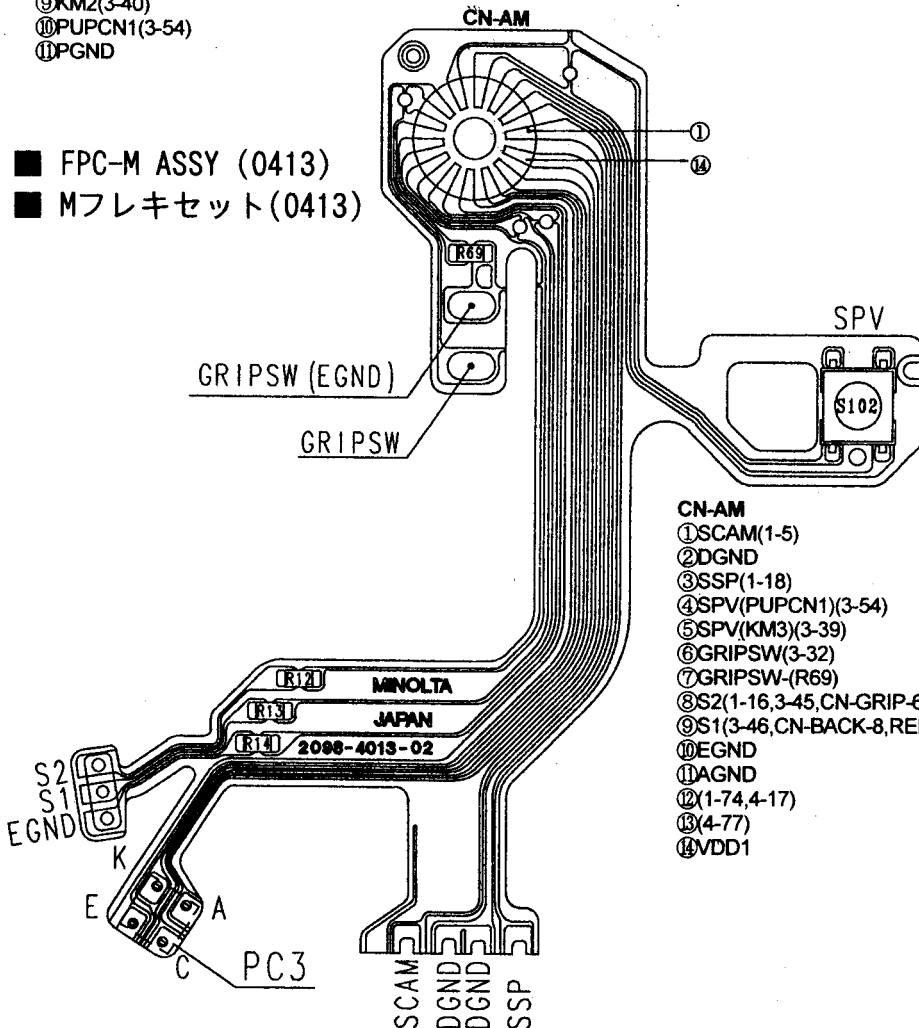
■ FPC-O ASSY (0415)
 ■ 0フレキシセット(0415)

- CN-GRIP**
 ①(1-30,3-19,4-27,8-6,9-6,CN-BACK-5)
 ②(1-81)
 ③VDD1
 ④DGND
 ⑤SGRPV(Q5)
 ⑥S2(1-16,3-45,REMOTE-TERMINAL)
 ⑦(3-16)
 ⑧(4-8,CN-BACK-4)



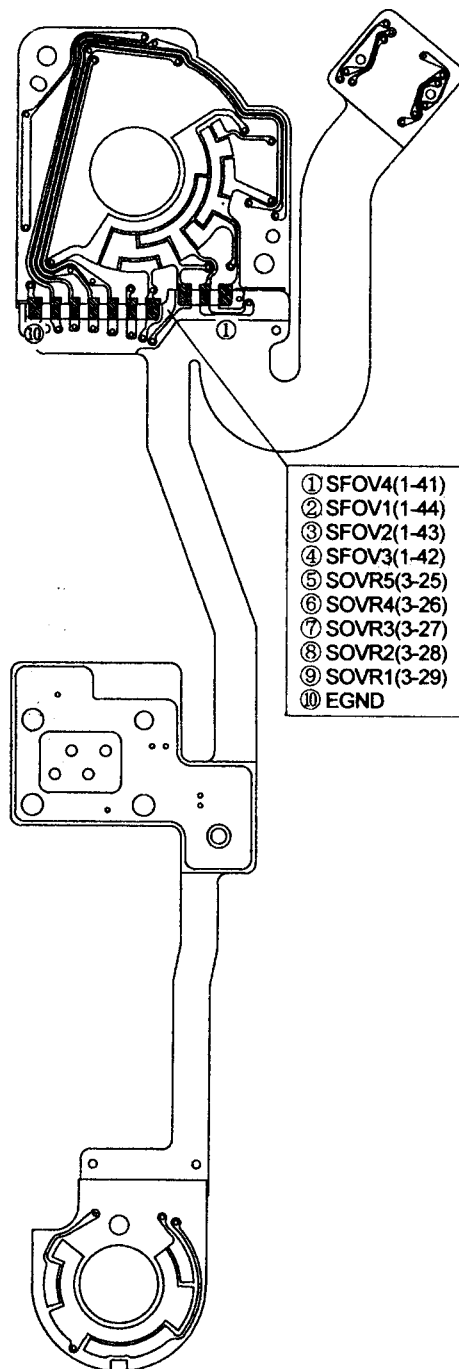
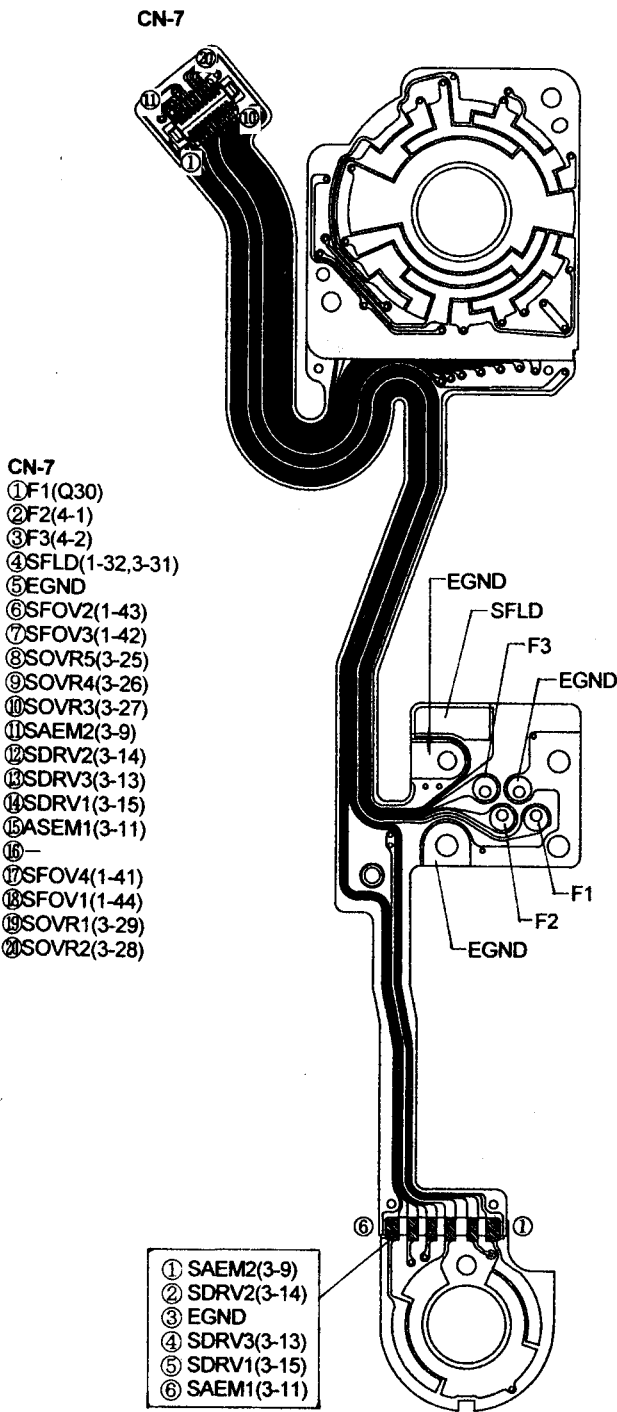
■ FPC-M ASSY (0413)
 ■ Mフレキシセット(0413)

- CN-AM**
 ①SCAM(1-5)
 ②DGND
 ③SSP(1-18)
 ④SPV(PUPCN1)(3-54)
 ⑤SPV(KM3)(3-39)
 ⑥GRIPSW(3-32)
 ⑦GRIPSW-(R69)
 ⑧S2(1-16,3-45,CN-GRIP-6,REMOTE-TERMINAL)
 ⑨S1(3-46,CN-BACK-8,REMOTE-TERMINAL)
 ⑩EGND
 ⑪AGND
 ⑫(1-74,4-17)
 ⑬(4-77)
 ⑭VDD1

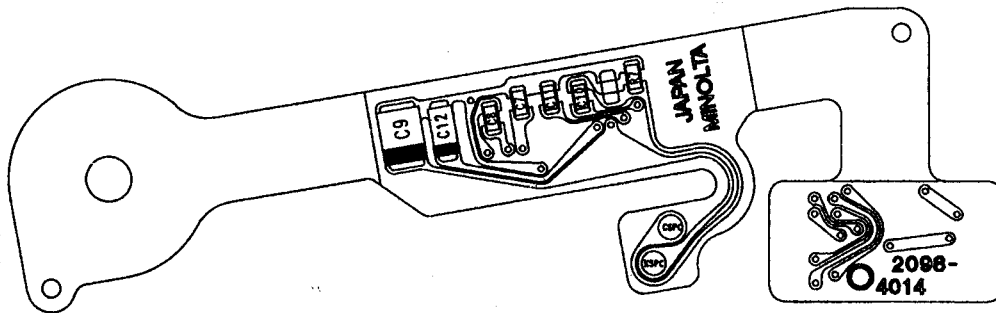
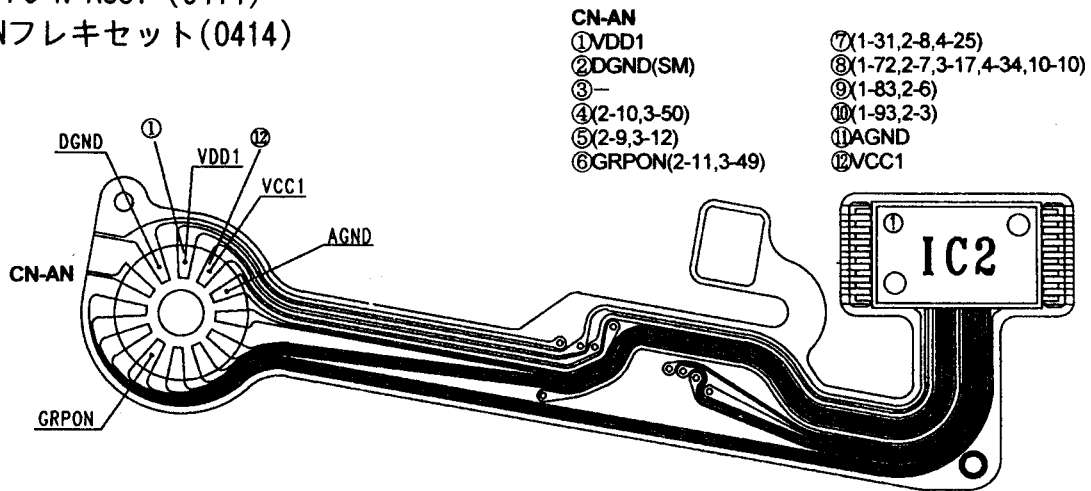


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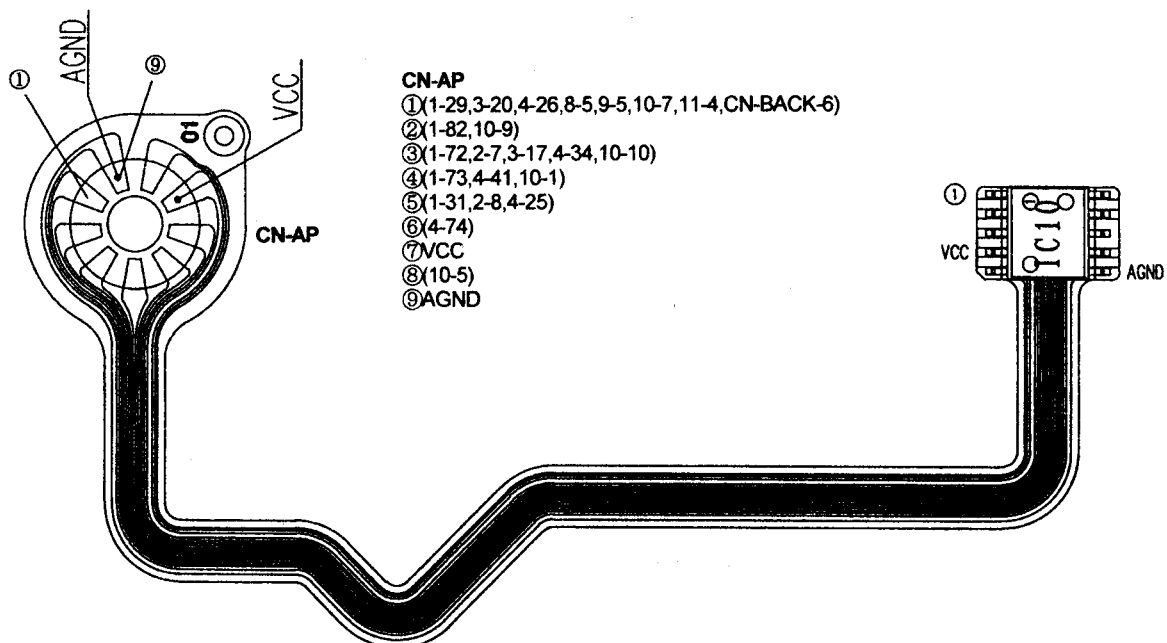
- FPC-H ASSY (0408)
- Hフレキセット(0408)



- FPC-N ASSY (0414)
- Nフレキセット(0414)



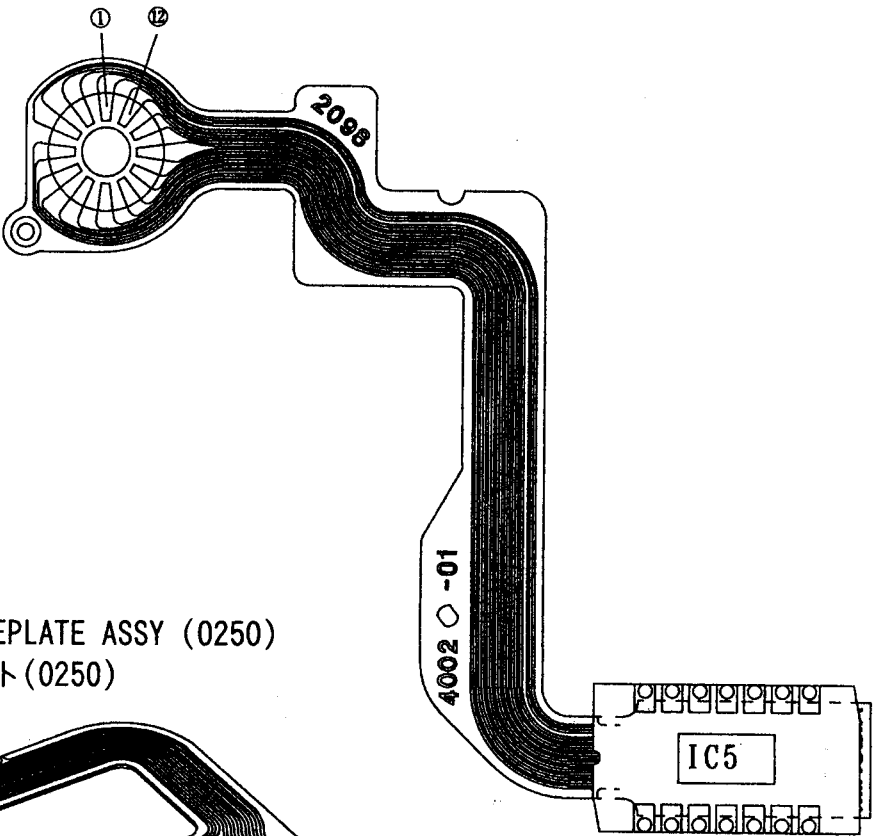
- SPC2 LENS HOLDER ASSY (0515)
- SPC2レンズホルダーセット(0515)



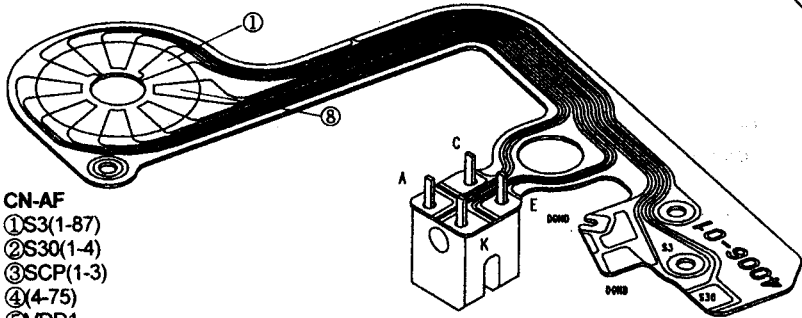
20 (2098)A

- FPC-B ASSY (0402)
- Bフレキシセット(0402)

- CN-AB
- ①VCC1
 - ②AGND
 - ③(1-95,5-14)
 - ④(1-48,5-1)
 - ⑤(1-49,5-2)
 - ⑥(1-50,5-3)
 - ⑦(1-47,5-4)
 - ⑧(1-51,5-5)
 - ⑨(1-52,5-6)
 - ⑩(3-23,5-7)
 - ⑪(1-17,1-98,5-8)
 - ⑫-

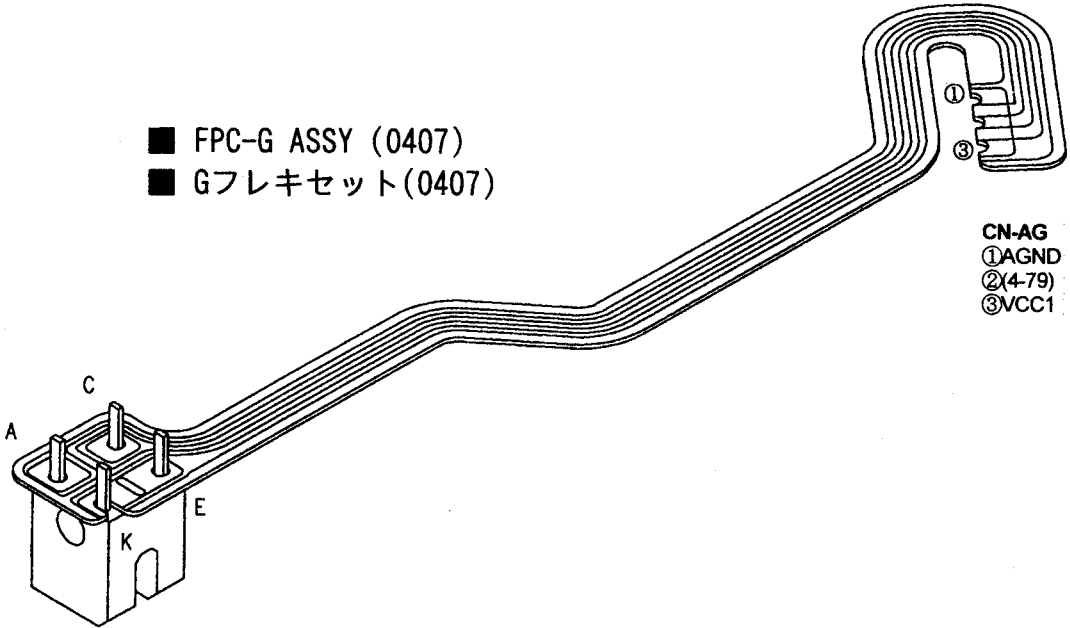


- APERTURE BASEPLATE ASSY (0250)
- 絞り台板セット(0250)



- CN-AF
- ①S3(1-87)
 - ②S30(1-4)
 - ③SCP(1-3)
 - ④(4-75)
 - ⑤VDD1
 - ⑥(1-76,4-28)
 - ⑦AGND
 - ⑧DGND

- FPC-G ASSY (0407)
- Gフレキシセット(0407)



- CN-AG
- ①AGND
 - ②(4-79)
 - ③VCC1

PC1

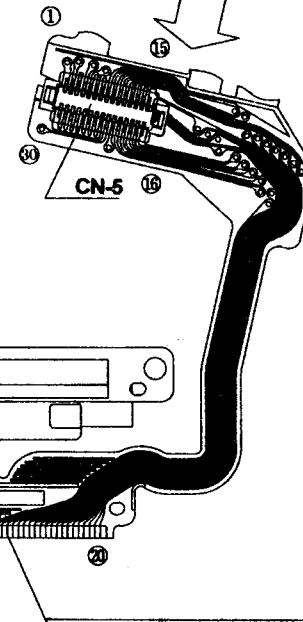
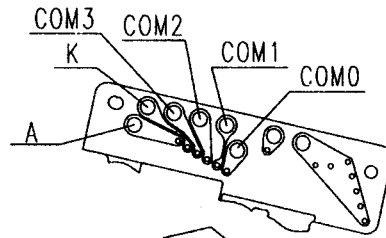
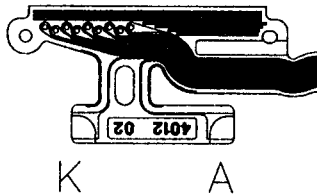
TROUBLE-SHOOTING
CHART

■ FPC-L ASSY (0412)

■ Lフレキシセット(0412)

CN-5

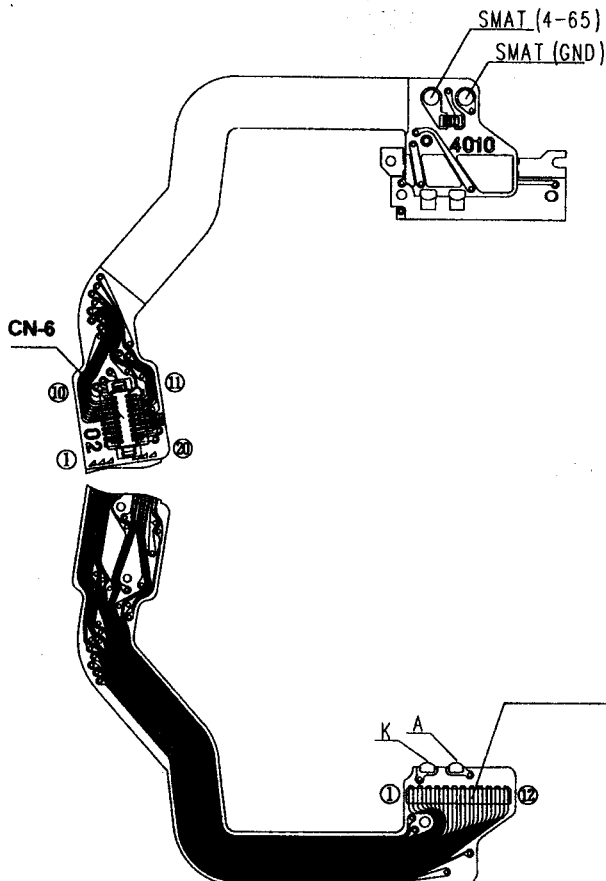
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|--------------|--------------|
| ①COM3(3-92) | ⑩SEG9(3-79) |
| ②COM2(3-93) | ⑪SEG10(3-78) |
| ③COM1(3-94) | ⑫SEG11(3-77) |
| ④COM0(3-95) | ⑬SEG17(3-71) |
| ⑤SEG20(3-68) | ⑭SEG16(3-72) |
| ⑥SEG21(3-67) | ⑮A |
| ⑦SEG0(3-88) | ⑯K |
| ⑧SEG1(3-87) | ⑰- |
| ⑨SEG2(3-86) | ⑱- |
| ⑩SEG3(3-85) | ⑲- |
| ⑪SEG4(3-84) | ⑳- |
| ⑫SEG5(3-83) | ㉑- |
| ⑬SEG6(3-82) | ㉒- |
| ⑭SEG7(3-81) | ㉓- |
| ⑮SEG8(3-80) | ㉔- |



- | |
|--------------|
| ①COM3(3-92) |
| ②COM2(3-93) |
| ③COM1(3-94) |
| ④COM0(3-95) |
| ⑤SEG20(3-68) |
| ⑥SEG21(3-67) |
| ⑦SEG0(3-88) |
| ⑧SEG1(3-87) |
| ⑨SEG2(3-86) |
| ⑩SEG3(3-85) |
| ⑪SEG4(3-84) |
| ⑫SEG5(3-83) |
| ⑬SEG6(3-82) |
| ⑭SEG7(3-81) |
| ⑮SEG8(3-80) |
| ⑯SEG9(3-79) |
| ⑰SEG10(3-78) |
| ⑱SEG11(3-77) |
| ⑲SEG17(3-71) |
| ⑳SEG18(3-72) |

■ PENTA-PRISM ASSY (0580)

■ ペンタブロックセット(0580)

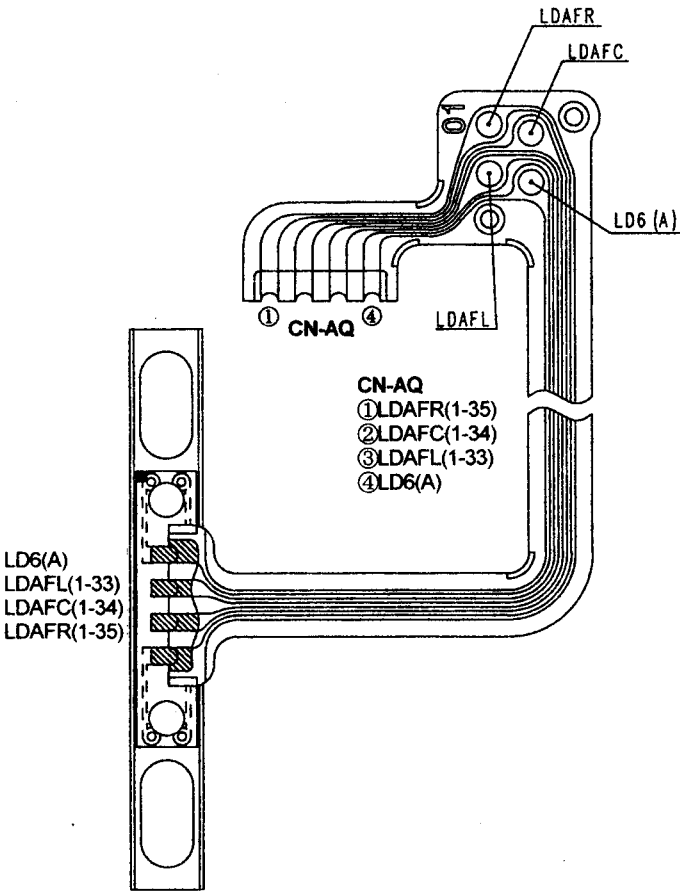


CN-6

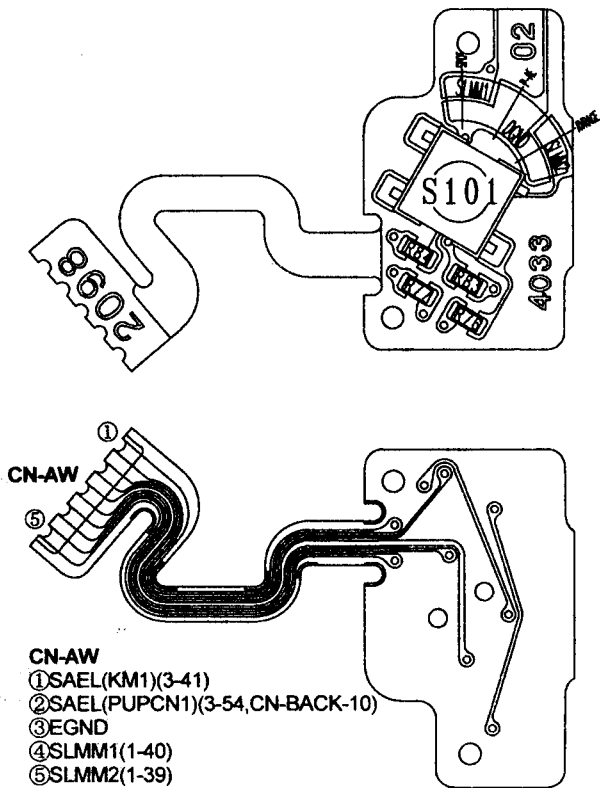
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| ①SEG22(3-66) | ⑪COM1(3-94) |
| ②SEG23(3-65) | ⑫COM0(3-95) |
| ③SEG24(3-64) | ⑬A |
| ④SEG25(3-63) | ⑭K |
| ⑤SEG26(3-62) | ⑮- |
| ⑥SEG27(3-61) | ⑯- |
| ⑦SEG28(3-60) | ⑰- |
| ⑧SEG29(3-59) | ⑱- |
| ⑨COM3(3-92) | ⑲R62 |
| ⑩COM2(3-93) | ⑳SMAT(GND) |

- | |
|--------------|
| ①SEG22(3-66) |
| ②SEG23(3-65) |
| ③SEG24(3-64) |
| ④SEG25(3-63) |
| ⑤SEG26(3-62) |
| ⑥SEG27(3-61) |
| ⑦SEG28(3-60) |
| ⑧SEG29(3-59) |
| ⑨COM3(3-92) |
| ⑩COM2(3-93) |
| ⑪COM1(3-94) |
| ⑫COM0(3-95) |

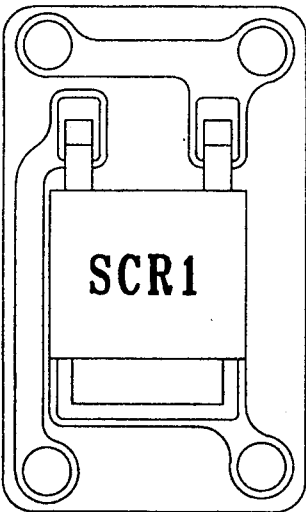
- FPC-Q (4017)
- Qフレキ(4017)



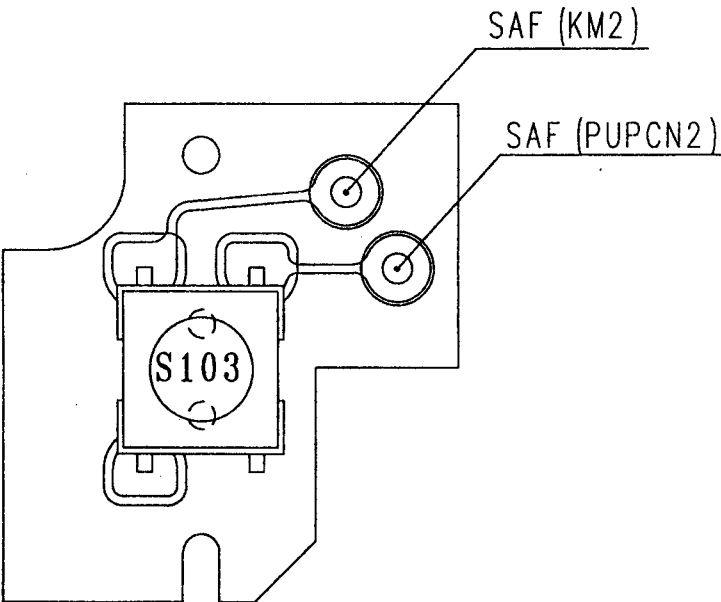
- FPC-W ASSY (0433)
- Wフレキセット(0433)



- FPC-S ASSY (0419)
- Sフレキセット(0419)

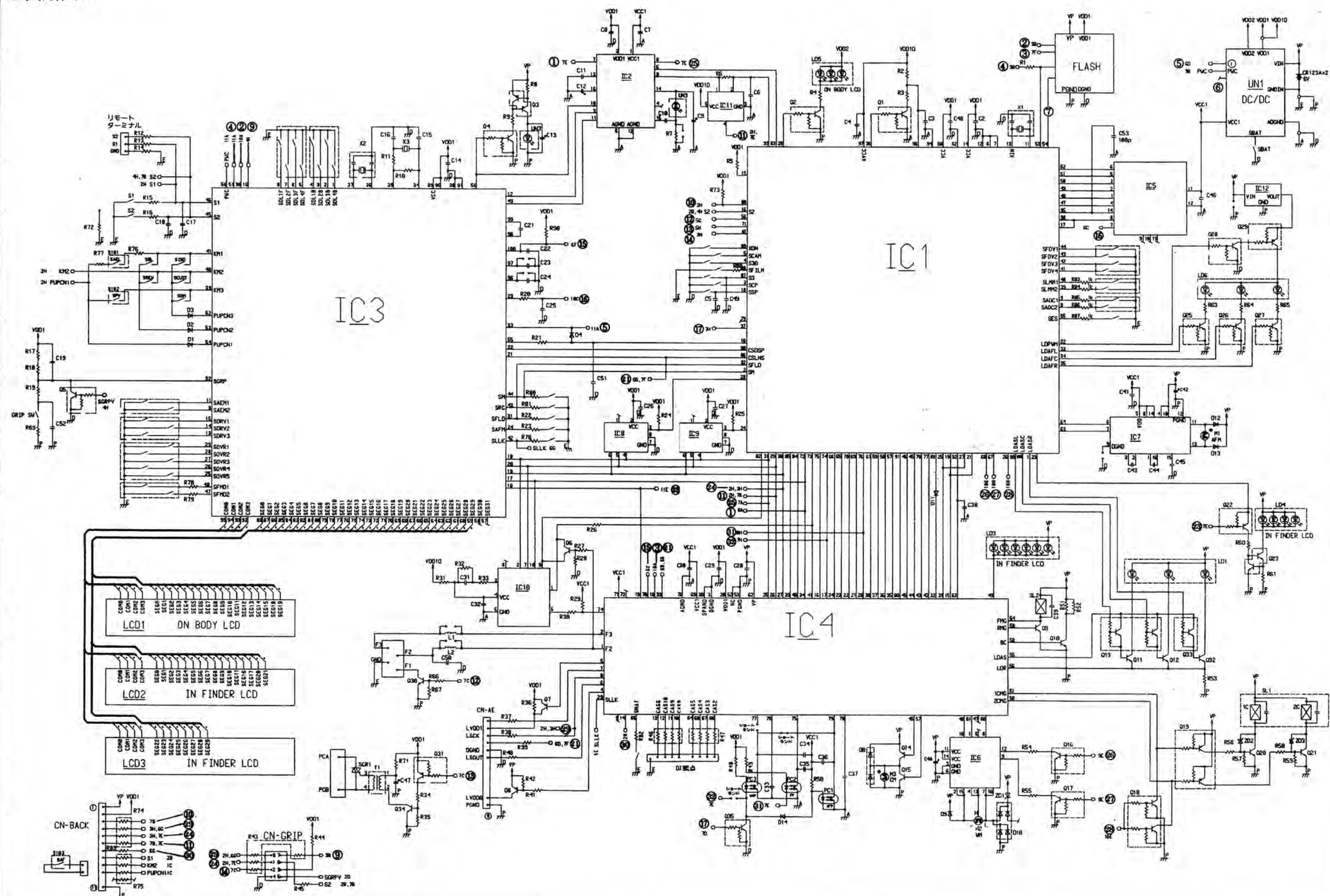


- AF BUTTON PCB ASSY (0420)
- AF釦基板セット(0420)



Circuit Diagram 1

回路図 1



■ Circuit Diagram 1 (FLASH)
 ■ 回路図 1 (フラッシュ)

